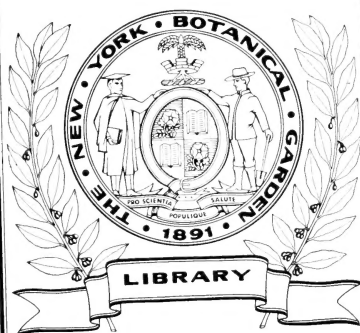
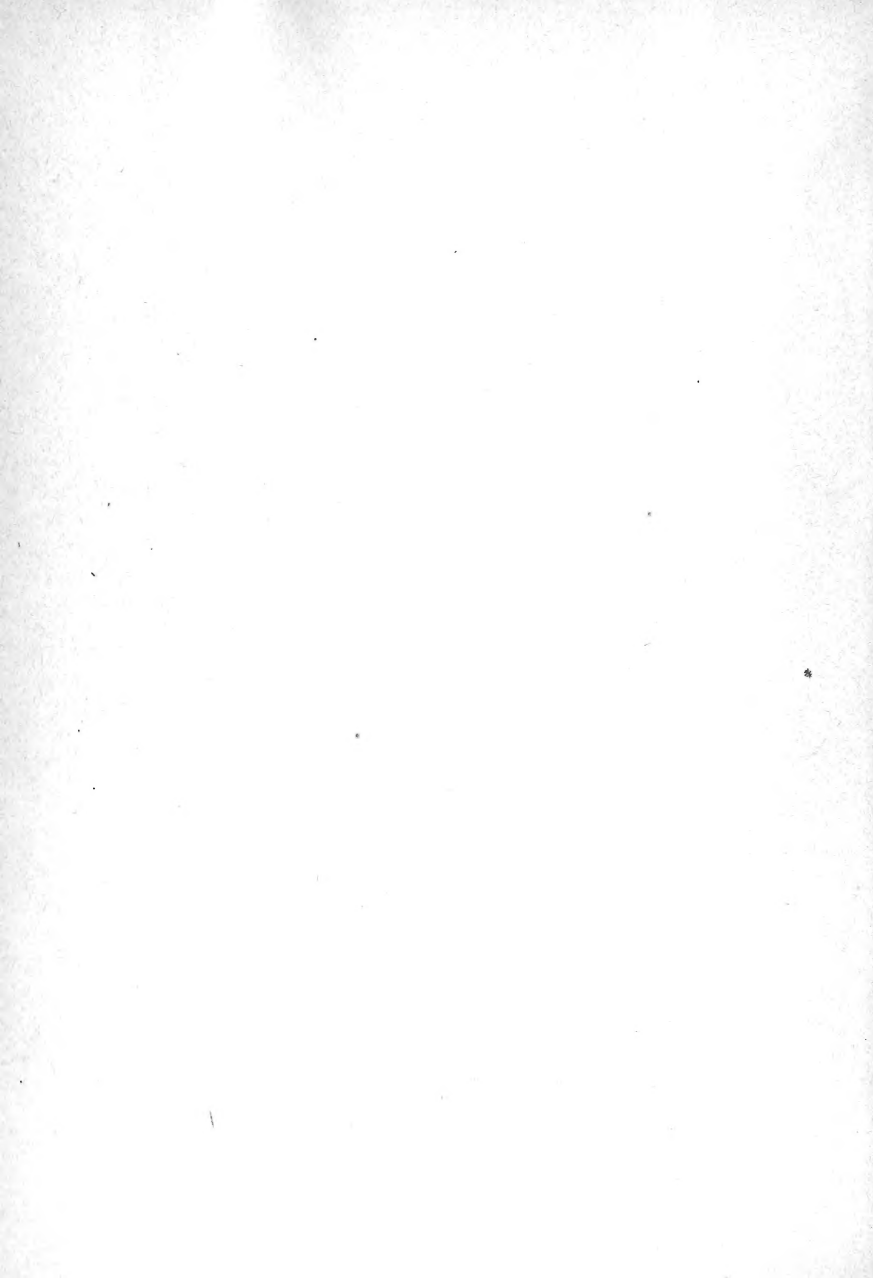


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**WM. J. STEWART
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HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

**FLORIST, PLANTSMAN, LANDSCAPE GARDENER
AND KINDRED INTERESTS**

11 HAMILTON PLACE, BOSTON, MASS. January 22, 1906.

Miss Anna Murray Vail,
Librarian N. Y. Botanical Garden,
Bronx Park, New York, N. Y.

Dear Madam:-

Replying to your letter of January 8th we would say that in indexing our last volume of HORTICULTURE we found that the index overran our anticipation and there was no opportunity to supply a regular title page on the form, so the volume will have to go without it this time.

Yours truly,

HORTICULTURE PUBLISHING COMPANY.



Bordeaux mixture.....	248
Boston, Gardeners' and Florists' Club of...12, 38, 66, 90, 113, *135, 302, 324, 396, 420, 471, 506, 524, 555, 612, 655, 684.	
-Co-Operative Flower Growers' Association.....	471
-Mycological Club.....	378
Bowling:-	
Baltimore wins.....	477
-Washington vs. Philadelphia....	508

-Australian and other new.....	552
-Diseases.....	31
-Early at Crystal Palace.....	459
-*Garza.....	707
-In England.....	464
-International show in Paris....	575
-Mme. Marie Liger.....	552
-*Norma.....	683
-Paris show.....	444
-Rosiere, New.....	443
-Scraps.....	653

E	
Echoes from England....9, 69, 169, 229, *319, 392, 464, 681	
Eckford, Henry, Death of.....	679
Editorial:-	
-Convention advantages; HORTICULTURE'S success and promise; The rose as a garden favorite; Two kinds of railroad station gardening.....	19

HORTICULTURE

INDEX TO VOL. II.

Illustrated articles are marked with a *

LIBRARY
NEW YORK
BOTANICAL
GARDEN

A	Page	Page	Chrysanthemums:—(Continued)	Page
Achimenes	298	Bribing business employes in Ger-	—Show at Propagating Gardens,	
*Adiantums	603	many	Washington	473
—Croweanum	345, 501	British Horticulture	—Show in Philadelphia	502
After Adjournment	105, 195,	160, 249, 296, 344, 439, 496, 528,	—*Specimen	697
230, 251, 275, 371, 443, 469, 579,		577, 608, 705.	—Spray vs. single-stemmed	345
611, 653, 707.		*British horticulturists at Paris	—Topics	650
Aftermath	230	—*Parks and gardens, Notes on	Chrysanthemum Society of America:—	
*Albertson, E.	13	Bruges, Belgium, First prize group	—Prizes offered	90, 277, 556
*American Association of Park		at exhibition	—Committee to examine seedlings	
Superintendents	36, 684	*489, *499	and sports	348, 397
—Carnation Society:—		Buffalo Florists' Club	—Corrected scale	372
—Preliminary premium list	90	—Notes	—Work of the committees	420,
—Meeting at Washington	169	Bug reciprocity	414, 473, 505, 556, 580, 612.	
—Special premiums	580	Building and heating interests,	Cincinnati parks	667
—Banquet for	684	Consolidation of	—Outing	137
—Registered	556, 708	Bulbs, Export of from China	—Florists' Club	230, 524
American Civic Association	348, 510	Burbank, Luther honored	Cleveland Florists' Club	505
*American Institute Show	472, *504	To record work of	Cliveden	337, 343
American Pomological Society	90,	Business changes	Clubs and societies, News of	
111, 325.		11, 43, 93, 117,	63, 113, 230, 253, 277, 473, 477, 506,	
American Rose Society	230	137, 209, 233, 257, 277, 310, 358,	507, 580, 613, 655, 684, 708.	
—Preliminary Schedule	502	382, 423, 449, 486, 510, 582, 624,	Coal, The situation	508
—*Executive committee of, at		667, 694, 718.	Cologynes, Culture of	83
Hartford	85		Conifers, Effects of the winter on	272
American salesmen, Enterprise of,			Congratulation, A happy	624
in Germany	15		Contemporaries, Wise and other-	
*American Seed Trade Associa-			wise	501
tion	12		Conservatory of Mrs. B. P.	
American Society of Landscape			Cheney	*593, *607
Architects	66		Corn-flower in winter	247
Appraisers' Decision	481		Correction, A	83
*Arancarias, Summer culture of	265		Crotons, Choice	606
Aralias, Choice	32		*Cyclamen, The	247
Asparagus, Winter	320		—Culture of the	369
Azalea nudiflora, Propagation of	84		*Cypripedium Fairieanum, Arrival	
—*Amena	463		of at St. Albans, Eng.	275
—Pauline Mardner	467		—insigne	707
B			D	
Baltimore gleanings	40		Dahlia notes; Best at Peacock	
—Enterprise, A	687		Farm	421
*Bay Shore Horticultural Society	467		—Show at Haddonfield	324
Bean pod, Out of the	251, 395,		Dear is Auld Boston, O.	611
443, 579, 653.			Decoration, An elaborate	347
*Bedding plants, A few remarks			*Decorative art	108
about	415		Dendrobium Phalaenopsis Schroe-	
*Before and after	343		derianum	*457, 469, 680
Begonia propagation	579		Des Moines Florists' Club	444
Boilers and boiler inspection	466		Detroit Florists' Club	163
—Hints on, and heating	496, 529,		Doctrine of selection	7
576, 606, 651.			Documents Public, received	372,
Bonora	347		430, 486, 632.	
Book Reviews:—			Don't	371, 419, 707
—The Chrysanthemum	395		Duchess Co. Horticultural So-	
—Elson's Music Dictionary	710		ciety	505, *531
Bordeaux mixture	248			
Boston, Gardeners' and Florists'			E	
Club of	12, 38, 66, 90, 113, *135,		Echoes from England	9, 60,
302, 324, 396, 420, 471, 506, 534,			109, 229, *319, 332, 464, 681	
555, 612, 655, 684.			Eckford, Henry, Death of	679
—Co-Operative Flower Growers'			Editorial:—	
Association	471		—Convention advantages; HORTI-	
—Mycolological Club	378		CULTURE'S success and prom- ise; The rose as a garden favor- ite; Two kinds of railroad station gardening	19
Bowling:—				
Baltimore wins	477			
—Washington vs. Philadelphia	508			
C				
Calceolarias	605			
—Hybrid or greenhouse varieties	62			
California State Floral Society	205, 324			
—Two exhibitions	473			
Canadian Horticultural Associa-				
tion	38, 205, *252			
*Canna, The home of the	161			
*Mme. Strohlein	271			
Carnation Diseases	63, 86			
—American in England	508			
*Hannah Hobart	614			
Morsels	600			
*Victory	673			
—Winsor	707			
Catalogues received	42, 137, 209,			
231, 257, 286, 310, 334, 358, 382,				
430, 446, 508, 590, 622, 694, 718				
Catalogue writers, A boon to	529			
*Cattleya gigas, white	83			
*Labiata	611			
—House of at Wheeler & Co.	658			
*Cherry, A new winter	495			
Chicago Florists' Club	38			
—Horticultural Society of	276			
—Shows	532, *553			
Christmas, Carmen A.	682			
—Horticultural rites of	649			
—Market reports	689			
—Trade notes	711			
Chrysanthemums:				
—American in Paris	552			
—Australian and other new	552			
—Diseases	31			
—Early at Crystal Palace	421			
*Garza	707			
—In England	464			
—International show in Paris	575			
—Mme. Marie Liger	552			
*Norma	683			
—Paris show	444			
Rosiére, New	443			
—Scraps	653			

—The Glorious Fourth; Taking a holiday; Advantage of the June exhibition; The sign-board nuisance; Foreign recognition for American roses; Boston's unique tree-garden; The park superintendents	34
—Defective systems of awards; American Society of Landscape Architects; Growth of commercial greenhouse building; Washington hospitality requires no guarantees	64
—Tussock moth in New York; The "true Harrisli"; Summer-resort trade; Golf in the parks; Facilities for self-education	88
—An act of malice; Preparing for the Jamestown exhibition; Seeing the Capitol City; Effect of Japanese immigration	110
—An act of courtesy; A representative convention; Walsh's rambling roses; Showing "for exhibition only"; Helping the Society; Mid-summer advertising; An important expedition to China; Advancement of the horticulturist; American fruit in Great Britain	134
—Greetings to S. A. F.; Congratulations to a prosperous firm; Vigilance against insect depredations; Confidence in the seedsmen; Our duty to the Society and our fellows	164
—Welcome rain; Training the children; Benefits of the Hail Association; Support the local organization; Retailers' unwise economy; S. A. F. and "closer relations"; Activity in greenhouse building; Uneven distribution of flower supply	194
—Popularity of the prize essay; The lesson of the open exhibition; Defects in State vice-presidents' reports; A new suggestion; Miss Sipe's lecture; Possibilities at Dayton; Baltimore's lustre; The jovial bowlers; New policies in the S. A. F.; Innovations in convention program; An inspiring sight	228
—Our purpose; Nicotiana Sandera; Fighting the brown-tail; About S. A. F. trade exhibits; Opening the fall campaign	250
—That blue rose; The zest of discovery; About nomenclature; Packing flowers for market; Orchids a necessity; Advancement of the private gardener	274
—Possibilities in advertising; True philanthropy; The S. A. F. and the gardener; Floral bedding in parks; Rise of the single violet; Unwise business tactics	300
—Dahlias from seed; Protecting outdoor bloom; A suggestion about clematis paniculata; Landscape art; Asters and dahlias; A floral sheaf	322
—A desirable shrub; Richmond rose; American Civic Association; Roses and mildew; The golden privet; Annuals in the border	346
—A new contributor; Nicotiana Sandera; Berkshire fern picking; The menace of the gas main; The rise of the dahlia; A new forest policy; Experience vs. imitation	370
—Retarding the hydrangea; The sportive dahlia; Fighting the tussock moth; A boon to cata-	

logue writers; Conflicting exhibition dates; Exhibition management	394
—A good combination; A comparison; Counting the cost; Saving the dahlia crop; Protect the trees; An overestimated qualification; A word for the house plant	418
—Gypsy moth not local; The artistic quality of floral exhibitions; Growth of the private greenhouse; Gardening—the florists' opportunity	442
—Plant bulbs; The best reading matter; A promising field for chrysanthemum development; The carnation in the exhibition hall	468
—Attend the show; A useful society; Modern publicity methods; The violet in the exhibition hall; The American Rose Society exhibition; A gardener's home; Taste in displaying vegetables	500
—Use of the rambling roses in cut sprays; Popular holiday bloomers; Two factors in a successful exhibition; Hardy evergreens for winter decorations; Buy the new carnations	530
—A great rose; Interesting the retailers; The flower-worker in the exhibition; Plan now for next year's exhibition; The prize schedule from a practical standpoint; The foliage question	554
—Sympathy; A coming event; Room for improvement; Preparing the Christmas plant; An unworthy sentiment; The tree warden; Thanksgiving day	578
—How can we improve; Something for advertisers to consider; Regulating flower prices; Choose your officers with discretion; Where HORTICULTURE stands	610
—Write to your Congressman; Advertisements as a gauge of progress; What we give for a dollar; Arranging decorative plant groups	652
—The seedsmen's appeal; Make the price schedule explicit; What is the "market price?"; Give the forcing bulbs time; The violet's troubles	682
—The key to success; The attitude of the "Boston people"; Help one another; The highest bidder versus the steady customer	706
Elastic term, An	421
Elaborate Horticultural Society	556
612, 684	
Eucharis Amazonica	607
Evergreens for window boxes	680
Exotics in outdoor decoration	275
F	
*Father of the Charter	149
Fertilizer, A good	192
—Question	254
*Ficus bed at Botanic Garden, Washington	641
Fires	689, 718
*Flower store, A rustic	507
Florida in September	368
Flower market reports	15, 43, 67, 91, 117, 141, 169, 209, 233, 257, 281, 305, 329, 353, 372, 399, 423, 449, 481, 513, 537, 561, 585, 625, 663, 689, 710, 713.
Folia question, The	576
Foreign trade, Extending our	423

*Forest reserve for New England, A	551
*Fothergilla Gardeni	9
Freaks	319
Freeias	321
French gardeners in London	471
Frontispiece, Our	254, 469, 653, 707
Fuel from Petroleum, New	658

G

Garden, The hardy flower	85, 108
Gardeners' Association of America	473
Gardening	607
German novelties for 1906	469
Ginger jar, Out of the	165, 446
Gladiolus, Early-flowering	14
Glass situation, The	14
—Window merger	65
—Window by machinery	146
*Gnaphalium Leontopodium	323
Goodbye, graft	275
*Grasses, hardy	409
*Grenell, W. H.	12
Greenhouses building and projected	14, 42, 146, 214, 238, 257, 286, 310, 334, 358, 382, 406, 454, 486, 508, 590, 624, 670, 694, 718.
Grower's duty, An	417, 465, 498
*Greenhouses at Somerville, N. J.	289

H

Hartford:	
—Florists' Club; Report on window box gardening	14
—Table decoration at banquet by Rose Society	13
—Executive committee of American Rose Society at	85
Rose Society at	85
—Florists' Club	378
*Hawaii, The flora of	656
Hingham Agricultural and Horticultural Society	506
*Hole Dean, Memorial window	417
Horticulture	619
Horticultural societies	35
Horticultural Show Royal, Awards at	65
Hose, A good	624
Huntington Horticultural and Agricultural Society	136, 396
Hydrangea hortensis	*385, 393
*Thomas Hogg in Washington	391
—Retarding paniculata grandiflora	391
—Experience with paniculata grandiflora	498

I

Improving waste land	275
In confidence	35
Indiana Festival Association	556, 624
Insecticides, Early History of	206, 325
Interesting episode, An	334
Iowa Florists, Society of	325
Iris, The	440

J

Johnson & Stokes employees, Outing of	90
---------------------------------------	----

K

Kansas City Show	531, *545, *553
Kentucky Society of Florists	90, 252, 302, 534.

L

*Laelia purpurata	25
Lenox Horticultural Society	12, 470, 505, 612, 685, *708.
Library notes	271
Lice, Destroying plant	41
*Lilies, New decorative effect with	185, 195
—Water	441

HORTICULTURE

	Page	Obituary:—(Continued)	Page	Philadelphia:—(Continued)	Page
—Hardy	463	Brower, Mrs. S. J., 395; Butler, Thomas, 371.		Florists' Club of.....90, 276, 378, 471	
London, A great park.....	295	Cheever, A. W., 683; Clark, George L., 111; Copley, William, 275; Craver, Charles H., 275; Croucher, George, 89; Currie, James, 89, 501; Crawford, C. T., 658.		—Palm House, Horticultural Hall 314	
Long Island musings.....	348	Dean, Richard, 251; Dobbie, James, 443; D'Ombra, H. H., 501; Duval, Henri, 111.		Pittsburg and Allegheny Florists' and Gardeners' Club.....38, 506, 580, 612.	
Louse, The oyster-shell bark.....	7	Fitzgerald, William, 323; Fremd, Charles, 658.		—Plant carrying device.....211	
M		*Ghemley, William, 501; Goble, F. C., 347; Guttile, A. G., 137.		—Life, Control of regeneration in.....223	
*Magnolia stellata.....	465	Haas, R., 501; Hall, Charles G., 611; Hinchliffe, T., 11; Hoffman, William, 69; Howe, C. L., 137; Humphrey, C. B., 301.		—Medicinal in Golden Gate park.....651	
*Massachusetts Agricultural College, graduating class.....	41	Keeney, N. B., 301; Kelley, L. P., 111; Kinsicht, J. F., 371; Kirby, James, 185; Kirby, Michael, 611.		—Hardy or tender.....651	
—Education in horticulture at.....	191	Laird, David, 501; Lautenschlager, W. F., 69; Lofler, A., 347.		Plymouth, Mass.....702	
Massachusetts Horticultural Society.....12, 66, 169, 205, 230, 252, 277, 210, 324, 348, 396, 471, 505, *521, 555, *580, 612, 684.		Mansfield, Elmer, H., 419; McGregor, Duncan, 89; Miller, Albert, 111; Morgan, Charles R., 501; Morris, John, 611; Morrison, James, 566; *Moseley, Frederick C., 165.		Poonsettias.....305	
Maryland, State Horticultural Society of.....	684	Nanz, C. G., 323; Nash, D. H., 443; Nimmo, James, 383; Noonan, M., 423; Paterson, James M., 469; Patty, D. H., 707; Pesenecker, Edward, 111.		Poor policy.....419	
*Melons under glass.....	295	Quaide, Thomas, 683.		Postal Progress League, The.....657	
Men, crisp chats with successful.....	446	Rees, S. P., 301; Reydellet, de M., 566; Richards, John S., 165; Rossiter, F. C., 301; Rudolph, A., 683.		Potatoes, Competition in.....614	
Milwaukee Florists' Club.....	302, 396	Sander, Mrs. Fearnley, 683; Scalarandis, A., 566; Shaw, F. D., 707; Siebrecht, Louis, 69, 89, *111; Steele, Alexander, 195; Stoll, Adolph, 165; Stone, Joshua C., 411.		Publications, New.....670, 710	
Minneapolis Florists' Club.....	506	Ure, J. C., 323.		Q	
Misrepresentation, a.....	371	Varney, William, 501; Weiss, Ellen, 658; Wood, T. W., 566.		Quite right.....	135
Montreal Gardeners' and Florists' Club.....	113, 654	*Zirngiebel, Denys, 542.		R	
—Horticultural Society.....	302			Rhode Island, Agricultural Federation of.....	470
—Notes.....	301, 372, 655			—Florists' and Gardeners' Club of.....	535
Morris County Gardeners' and Florists' Society.....	324, 420, 470, 550, 684.			Rhododendrons.....	77
Moth, Massachusetts law relative to.....	347			—Dell at Kew.....	299
—Gypsy warfare.....	683			*Riverton, Novelties this season at.....	273
Mushrooms and toadstools.....	326			Rosa setigera.....	81
N				*Rose Lady Gay.....	125
Nassau County Horticultural Society.....	136, 205, 302, 396, 503, 654			*Rambler at Woods Hole.....	131
National Council of Horticulture.....	111			*Prince of Bulgaria.....	133
—Chrysanthemum Society of England.....	324			—Hybridization.....	495
—French Society.....	444			*Growing in California.....	527
—Nut Growers' Association.....	276			*Kate Moulton.....	553
Neighborhood House, The.....	527			—Some Richmond.....	581
Nephelepis Barrowsii and others.....	369			*E. G. Hill's seedling, A1.....	569
New Bedford Horticultural Society.....	324, 654			—American Beauty, How to grow specials.....	608
—And her common.....	277			—Important points in mid-winter culture.....	703
New Haven County Horticultural Society.....	205, 253, 303, 348, *555			—Diseases.....	8
New London County Horticultural Society.....	38			Roses.....	13, 39
New Jersey Floriculture Society.....	69, 205, 277, 397, 473, 612			—Cutting from young stock of.....	192
Newport.....				Brides and Bridesmaid.....	192
—Features at exhibition.....	63			Rose-house, wisdom.....	298, 368, 609
—Hydrangeas in.....	89			—Model, A.....	467
*Nymphaea at exhibition.....	109			—Reverie, A.....	705
—Pandanus at exhibition.....	109			S	
—Windows.....	135			*Sander & Sons, Employees of.....	613
—Doings in.....	254			St. Louis exhibition.....	371
—Italian garden at.....	297			—Florists' Club.....90, 206, 473, 534, 556, 684.	
—Personals.....	371			San Francisco notes.....	42, 137, 230, 253, 277, 372, 419, 446, 508, 533, 585, 655, 686.
—Hydrangea hortensis in.....	393			—Movement, A.....	111
—Horticultural Society.....	37, 66			—Flower show.....	533
111, 205, 253, 276, 302, 348, 397, 444, 504, 555, 654, 708.				Scale remedy, A.....	349
News notes.....	11, 43, 93, 117, 137, 169, 195, 233, 254, 301, 323, 347, 349, 375, 395, 426, 449, 486, 566, 579, 590, 611, 689.			Scales for judging.....	506
New York Florists' Club.....	37, 302, 396, 532, 654.			*Scott, John.....	655
*Nicotiana glauca, varieties of.....	193			Seattle Florists' Association.....	580
—Supplement.....				Seed trade topics.....	42, 67, 137, 214, 231, 255, 301, 334, 358, 382, 395, 430, 454, 518, 566, 614, 655, 694, 713
North Shore Horticultural Society.....	206, 253			Seeds free.....	518
Nursery rates reduced.....	687			Seedsmen's friend.....	581
*Nymphaea Victoria Trickeri.....	361			Set a good example.....	254
O				Shrubs hardy, Uses of for forcing.....	40, 128
Obituary:—				Society of American Florists:	
Allen, Mrs. C. L., 611; Apgar, E. A., 275.				—Rates to Washington.....	38
Baker, Nathaniel, 301, 347; Barbe, Mrs. A. F., 566; Beagan, F., 566;				—Courtesies to gardeners.....	66
				—Washington souvenir.....	66
				—Committees appointed.....	90
				—Entertainment at Washington.....	107
				—Preliminary program.....	112
				—Preliminary notice by President Vaughan.....	136
				—Committee of introduction appointed.....	136
				—List of travelling representatives.....	136
				—New York, Boston, Connecticut routes to Washington.....	136

HORTICULTURE

	Page		Page		Page.
—*Father of the Charter.....	149	—*Kasting, W. F.....	217	True Beauties.....	133
—Society of American Florists and Ornamental Horticulturists.....	157	—Visitors on steps of Treasury building.....	223	—More about.....	299
—*Beatty, H. B.....	159	—Convention story completed.....	223	*Tritoma Pfitzeri, Field of.....	433
—*Cooke, G. H.....	159	—List of exhibitors.....	224	*New, and other Riverton specialties.....	445
—*Freeman, J. R.....	159	—Committee on President's address.....	225	Twin Cities, Notes from the.....	209
—*Hauswirth, P. J.....	159	—Suggestion on peony classification.....	225		
—*Stewart, W. J.....	159	—Report of judges on essays.....	226	U	
—*Vaughan, J. C.....	159	—Report of committee on spring exhibition.....	226	Utica Florists' Club.....	580
—Convention of officers and subjects discussed to present time.....	166	—Shooting tournament.....	226	V	
—*Some of the Washington workers.....	167	—Report of committee on final resolutions.....	227	*Vandas in Tokio.....	31
—*Bisset, Peter.....	167	—Lecture by Miss Sipe.....	227	*Vacation time, In.....	375
—*Blackstone, Z. D.....	167	—Dennison school received medal.....	141	Vacationists going and returning.....	137, 165, 195
—*Carmody, J. D.....	166	—National flower show.....	612	Value of scientific training, The.....	162
—*Ernest, W. H.....	167	—Department of plant registration.....	113, 126, 202, 239, 297, 444	Veitch's recent introductions from Northern China.....	649, 681
—*Gude, W. F.....	167	506, 685.		Violet diseases.....	193
—*Henlock, Charles.....	167	Societies to co-operate.....	252	Visitors in Boston.....	251
—*Moseley, E. A.....	167	Soil sterilization.....	605	W	
—*Midsummer in Washington.....	168	Still under trial.....	579	Water lilies.....	441
—Prizes for immortelle flag.....	169	Stocks.....	86	Washington, Florists' Club of.....	137, 471, 505.
—Uncle Sam's contribution.....	169	Suffolk County Horticultural Association.....	172	—Notes.....	254
—A Philadelphia Welcome.....	169	T		Weiss, Ellen; An appreciation.....	653
—Baltimore program.....	169	Tarrytown Horticultural Society.....	35, 136, 276, 378, 473, *503, *531, 612.	What they say of us.....	164, 195, 230, 251, 275, 301, 379, 707.
—*Convention at Washington.....	196	Testimonials from advertisers.....	410	White mountain forests, Saving the.....	419
—President's address.....	196	Toledo Florists' Club.....	708	Wholesome chestnuts.....	11, 135, 251, 395, 469.
—Secretary's report.....	200	—Has a visit from Detroit.....	66	Wires can be buried.....	478
—Treasurer's report.....	201	Toronto Gardeners' and Florists' Association.....	444	*Wirth, Theodore.....	36
—Judges' report.....	202	Tree protection in Cleveland.....	35	—Farewell banquet to.....	708
—Election of officers.....	202				
—*Lonsdale, Edwin.....	202				
—*Department of Agriculture building.....	202				
—The Ideal Employer prize essays.....	203				

HORTICULTURE

Vol. II

JULY 1, 1905

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FORSYTHIA GARDEN
In the Arnold Arboretum

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

SUPPLEMENT WITH THIS ISSUE

HANNAH HOBART

The Pride of California...

The grand Prize Winner in competition with the latest and very best products in Carnations, East or West, for the last eight years.

Mr. John A. Balmer, of Cle Elum, Washington, wrote, after his visit to our nurseries in January, 1902, an article which appeared in the *American Florist* of February 15, as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different; in this respect it most resembles the old lal-lie, but of course the color is different. I saw two large bushes of it at Sievers', and the sight is one long to be remembered; hundreds of blooms and not a poor one in the lot, and everywhere the exact counterpart of the other; no bursted calyxes, but every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and if needing verification, the simple assertion that the flowers of this magnificent variety have been sold wholesale as high as \$1.50 per dozen, and none less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

The constant inquiry by every one who has seen the plants in flower is, "When will the Hannah Hobart be for sale?" This led us at last to the conclusion to distribute the same next year, and we are ready to book orders from now on for delivery beginning January 1, 1906. Send your orders in early as they will be filled strictly in rotation.

PRICE, \$3.00 per 12; \$15.00 per 100;
\$120.00 per 1000

JOHN H. SIEVERS & CO.,
1251 Chestnut St., SAN FRANCISCO, CAL.

This illustration shows the average size of Bloom



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KILLARNEY

The best paying forcing Rose ever grown.
2000, 2½-inch Grafted Stock

\$20.00 per 100; \$175.00 per 1000; 500 at
Thousand Rate

This is the Last Offer this Season

Siebrecht & Son

Rose Hill Nurseries

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COLD STORAGE

Lily of the Valley

Large Strong Selected Pips
In boxes of 2500 each

WM. HAGEMANN & CO.

55 DEY STREET, NEW YORK

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ROSES

	2½-inch	Per 100	Per 1000	2½-inch	Per 100	Per 1000
Am. Beauties.....	\$5.00	\$15.00	\$7.00	\$63.00		
Chateaux.....	4.00	30.00	5.00	45.00		
Uncle John.....	4.00	35.00	5.00	45.00		
Golden Gates.....	2.50	20.00	4.50	40.00		
Winds.....	3.50	30.00	5.00	45.00		
Sunrise.....			5.00			
Stevia R.C.....	Per 100	Per 1000	2½-in	Per 100	Per 1000	
	\$1.50	\$12.50	\$2.50	\$22.50		

POEHLMANN BROS. CO., Morton Grove, Ill.

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The Best New Plant of the Year!

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PRICES:—2½-inch pots, \$9.00 per doz; 50 plants at 60c each, 100 at 50c. each, 500 at 45c. each, 1000 at 40c. each
5-inch pots \$15.00 per dozen; 6-inch pots, \$24.00 per dozen;
8-inch pots, \$36.00 per dozen; 10-inch pots, \$60.00 per dozen.

F. R. PIERSON CO.
Tarrytown-on-Hudson NEW YORK

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HORTICULTURE

VOL. II

JULY 1, 1905

NO. 1

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

SUBSCRIPTION PRICE

ONE YEAR, IN ADVANCE	\$1.00
TO FOREIGN COUNTRIES	2.00
SINGLE COPIES . . . . .	.05

ADVERTISING RATES, NET

PER INCH, 3 COLS. TO PAGE . . .	\$.90
FULL PAGE	24.00
HALF PAGE	12.00
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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE — Fothergilla Gardeni		NEWS OF THE CLUBS AND SOCIETIES — (Continued)	
THE DOCTRINE OF SELECTION — Wm. R. Smith	7	Future Events	13
THE OYSTER-SHELL BARK LOUSE — A. E. Stern	7	Table Decoration at Banquet — Illustration . . .	13
ROSE DISEASES — R. L. Adams	8	E. Albertson, President-elect American Association of Nurserymen — Portrait	13
ORNAMENTAL HORTICULTURISTS — Charles Ingram	8	Hartford Florist Club	14
ECHOES FROM ENGLAND — Henry H. Thomas . .	9	ROSES — M. H. Walsh	13
FOTHERGILLA GARDENI	9	CUT-FLOWER MARKET REPORTS	
EDITORIAL	10	Boston, Buffalo, Chicago, Louisville, New York, Philadelphia	15
OUTDOOR ART AND CRAFT	11	Novelties in Chicago	15
NEWS OF THE CLUBS AND SOCIETIES		MISCELLANEOUS	
Massachusetts Horticultural Society	12	Wholesome Chestnuts	11
Gardeners' and Florists' Club of Boston	12	Personal	11
Lenox Horticultural Society	12	News Notes	11
American Seed Trade Association	12	Business Changes	11
W. H. Grenell, President-elect — Portrait . . .	12	Obituary	11
		Greenhouses Building or Projected	14
		Glass Situation	14

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Nothing but Pure Bone ground fine making it ready for instant use

50 lbs.	\$1.25	500 lbs.	\$ 8.00
100 lbs.	2.00	1000 lbs.	15.00
200 lbs.	3.50	2000 lbs. (ton) ..	25.00

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A fine powder 17% soluble in water and immediately available

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200 lbs.	4.00	1000 lbs.	16.00
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This is our regular Bone Meal mixed with Pure Blood. It is an excellent fertilizer to use as a top dressing or for potting

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Scott Fern

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Twice \$3.00 per 100 \$25.00 per 1000

Seed of only selected flowers and well-built plants.
None better.

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Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs. Information as to special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh importation, 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



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Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

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1012 Ontario St., PHILADELPHIA

Importer of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for Prices

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Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58

Consult the Buyers' Directory on Pages 20 and 21 for information as to where to buy the right goods at the right prices.

LILIES, JAPANESE PLANTS

BAMBOO STAKES

SUZUKI & IIDA

31 BARCLAY ST., NEW YORK

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CELERY PLANTS

Ready July 10th, sharp. 25,000 Early Giant Pascal, A-1 Strain, finest in the country. Transplanted, \$4.50 per 1000; from the seed now in the field, \$3.00 per 1000. No better stock for private or commercial growers can be found.

COOLIDGE BROS., So. Sudbury, Mass.

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From flats. Well grown and thrifty.

Plumous Nanus..... \$10.00 per 1000
Springer..... 8.00 per 1000

Large 3-inch Plumous Nanus..... 25.00 per 1000

Cash with order, prepaid. Get our prices on large lots

Yalaha Conservatories, Lake O., Fla.

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M. H. WALSH Rose Specialist

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Hardy Roses, the best new and old varieties; **Strong Flowering Plants**; **Hybrid Tea Roses**, the best and hardest varieties: **New Rambler Roses**, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha. Strong, field-grown plants to flower next summer. Best varieties **Paeonies**, **Phlox**, and **Hollyhocks**.

Catalogue describes all the above.

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Roses for Planting

STRONG PLANTS OUT OF 4-IN. POTS

Brides and Maids on own Roots and Grafted on Manetti Perles, Chateau, Gen. McArthur and Carnot.

Pittsburgh Rose and Carnation Co.

CRYSTAL FARM

GIBSONIA P. O., PA.

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Cyclamen Giganteum

Our well known strain in four separate colors. Fine, strong, healthy stock

3½-inch at \$12.00 per 100

3¾-inch, stronger, at \$15.00 per 100

SATISFACTION GUARANTEED

Lehng & Winnefeld

HACKENSACK, N. J.

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ROSES

Ready to bench,
BRIDE
BRIDESMAID
IVORY
Fine 3-inch stock

\$5.00 per 100; \$50.00 per 1000; 25 at 100 rate; 250 at 1000 rate. Cash with order or satisfactory references.

Baur Floral Co., Erie, Pa.

Peruvian Guano

A Natural Bird Product from Peruvian Islands
100 lbs. \$2.25

W. ELLIOTT & SONS, -- NEW YORK

New Creations in Dahlias

Surpassing all others. Faithfully and truthfully described in our new illustrated and descriptive catalogue, mailed free upon request.

L. K. PEACOCK, INC. - - Atco, New Jersey

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ORNAMENTAL NURSERY STOCKS. HARDY RHODODENDRONS, ROSES Hybrid, Perpetuals and Teas, Climbers, Kalmians, etc., Manetti Stocks, all in prime quality, Fall 1935 or Spring 1936 delivery. Ask for our trade list, address our American agents:

AUGUST ROLKER & SONS, 31 Barclay St., New York, or P. O. Box 752

W. FROMOW & SONS, Bagshot, England

EASY TO PROPAGATE TO GROW TO SELL

Is the New Early Yellow 'Mum

EASIGOLD

And sold at the easy price of \$2 per Dozen; \$8 per 100. Strong plants from sand or soil. White and Pink Ivory and Bonafide from soil \$2 per 100.

ENGLISH IVY. We have left 200 fine plants in 3½ in. pots. The lot for \$15.

THE F. W. FLETCHER CO.
AUBURNDALE, MASS.

Zirngiebel Giant Pansies

Market and Fancy Strains.

New crop Seed of those well known unrivalled Pansies, ready now, in trade packages at ONE DOLLAR each, either strain.

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ROSES

BRIDE, BRIDESMAID, IVORY and GOLDEN GATE, extra strong stock, out of 3-in. pots, \$4.00 per 100; \$35.00 per 1000.

ASPARAGUS PLUMOSUS, 2½-inch, \$3.00; 3-inch, \$5.00 per 100.

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Just What You Need This Very Day!
You'll find it in the Buyers' Directory,
Pages 20 and 21.

FOR SALE

225 Brides, 200 Maids, grafted stock, clean and vigorous, from 4-in. pots, at \$12.00 per hundred, cash.

J. M. WARD & CO. PEABODY, MASS.

MY MARYLAND

Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class Certificate of Merit by the American Carnation Society, Lawson Bronze Medal for 100 blooms and S. A. F. Frouze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1936. Price \$2.50 per doz.; \$12 per 100; \$100 per 1000. Write us for other new and standard varieties.

H. WEBER & SONS, Oakland, Md.

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Chicago Carnation Co.
JOLIET, ILL.

Our Plants are Now in the Field

Write us for Fall Delivery.

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824 No. 24th St.
PHILADELPHIA

CORRESPONDENCE SOLICITED

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ROBT. C. PYE

Carnation Grower

NYACK, N. Y.

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If you offer the right goods in the right way in these columns, you will not lack for customers.

THE COTTAGE GARDENS CO.

INCORPORATED

Horticultural Specialties

Ornamental Nursery Stock Peonies
Carnations

C. W. WARD, President. I. C. GOWING, Sec'y and Treas.
Long Distance Telephone, 918 CREEDMOOR

You Need Not Go Outside the Pages

— OF —

HORTICULTURE

TO FIND WHERE TO GET THE BEST FLOWERS AND THE BEST
FLORISTS' SUPPLIES IN THE COUNTRY

Seeds of Hardy Perennial Flowers

Sown in June and July will germinate and give excellent stock for transplanting in the Fall

If you want the choicest strains in Flower Seeds write us.

Catalogue mailed upon application

R. & J. FARQUHAR & CO.,

6 and 7 South Market St.
BOSTON

Thorburn's Bulbs

We are now booking orders for

LILUM HARRISH
LILUM LONGIFLORUM
ROMAN HYACINTHS
Paper WHITE NARCISSUS, etc.

Apply for Prices, stating number wanted

CYCAS REVOLUTA at \$8.00 per 100 lbs.

COLD STORAGE VALLEY PIPES, in cases of 3000, at \$10.00 per 1000.

J. M. THORBURN & CO.
36 Cortlandt St., New York.

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RAWSON'S
Arlington Tested
SEEDS For the Florist

Catalogues Mailed Free
W. W. RAWSON & CO., Seedsmen
12 and 13 Faneuil Hall Square, BOSTON

In writing to advertisers, mention HORTICULTURE



BULBS

and **PLANTS**

Ralph M. Ward & Co.

12 West Broadway New York

The **HARDY ANNUAL** of the CENTURY
NICOTIANA SANDERAE

Seeds in original packets, at 50c. per packet, from seedsmen throughout the United States.

Wholesale Agents for the United States

MY. A. DREER, Philadelphia, Pa.

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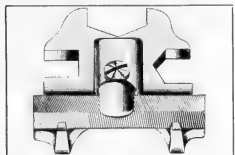
BURPEE'S SEEDS

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

Why Pay \$1.50

Every time you want your Lawn Mower sharpened. The little dingus we advertise here will do it in five minutes and better than any machine shop. We've tried it ourselves and know what we are talking about. A child can



do it. Entirely new and away ahead of any similar device on the market. Has eight cutting surfaces that can be used in succession. Made of the highest grade crucible steel. Will last a lifetime. Try it.

Postpaid 75c. Postpaid

Show it to your friends. A liberal discount allowed to agents. Satisfaction guaranteed. It's the greatest little article you ever saw, simple as it looks.

George C. Watson

Seedsmen 1614 Ludlow St. Philadelphia

In writing to advertisers, mention HORTICULTURE

PLANT STAKES

No. 10 STEEL WIRE GALVANIZED

	100	1000
2 feet long.....	\$0.45	\$4.08
2 1/2 " " ".....	.53	5.11
3 " " ".....	.65	6.15
3 1/2 " " ".....	.78	7.18
4 " " ".....	.88	8.16
4 1/2 " " ".....	1.00	9.20
5 " " ".....	1.12	10.23
5 1/2 " " ".....	1.20	11.27
6 " " ".....	1.30	12.25
6 1/2 " " ".....	1.40	13.28

No. 5 STEEL WIRE GALVANIZED

For staking American Beauty and other strong and tall growing Roses.

	100	1000
2 feet long.....	\$0.55	\$5.25
2 1/2 " " ".....	.70	6.50
3 " " ".....	.85	7.50
3 1/2 " " ".....	.95	9.00
4 " " ".....	1.10	10.00
4 1/2 " " ".....	1.25	11.50
5 " " ".....	1.40	13.00
5 1/2 " " ".....	1.60	15.00

CANE STAKES

Southern, 75c. per 100; \$6.00 per 1000
Japanese, very thin, 6 ft. long, 75c. per 100; 500 for \$8.00; \$5.50 per 1000;
\$12.50 for 2500.

HENRY F. MICHELL CO.

Seed Growers and Importers

1015 Market St., Philadelphia, Pa.

Johnson & Stokes' Kingly Collection of Giant Pansies

Never has a strain of PANSY given more general satisfaction than has our KINGLY COLLECTION of GIANT PANSIES. It is absolutely UNRIVALED in range of magnificent colors, size and substance, and no expense has been spared to bring it up to its present high standard of EXCELLENCE.

Half-trade packet (1000 seeds) 30c; trade packet (2000 seeds) 50c.

5000 seeds, \$1.00; per ounce, \$5.00.

Mail us your bulb requirements and avail yourself of our SPECIAL ADVANCE PRICES.

JOHNSON & STOKES, 217-219 Market St., Philadelphia, Pa.

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FIRST QUALITY FRENCH AND DUTCH

BULBS

Fall Bulb Price List on request

JOSEPH BRECK & SONS, Corp.

Seeds, Florists' Supplies, and Agricultural Hardware

42-44 No. Market St. BOSTON, MASS.

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THOS. J. GREY & CO.

AGRICULTURAL IMPLEMENTS

..SEEDS..

Farm, Garden and Lawn Supplies

We carry in stock Duplonec Paris

Leading Machines

3a So. MARKET ST., BOSTON

In writing to advertisers, mention HORTICULTURE

Are You Going To Build?

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

NOT IN THE TRUST.

Address:

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

Remember this factory is NOT in the TRUST and has a free foot.

In writing to advertisers, mention HORTICULTURE

The Doctrine of Selection

A fundamental principle of horticultural advancement lies in the doctrine of selection. Slighting reference to this truth is sometimes heard from those who have some new or grotesque dogma which they seek to promulgate, but it stands.

The doctrine of selection applied to plant production must lead to success if we keep a well-matured purpose steadily in view. We have only to look in the various directions in which progress has been made in the past to see repeated evidence of the truth of this. Mistakes are often the best educators. I recall the mishap of an old and usually successful florist, the late John Dick of Philadelphia, who undertook to burn the candle at both ends by taking his camellia cuttings from the small, inferior wood, and leaving the strong-growing floriferous shoots to get flowers from. The result was that he eventually found himself in possession of a stock of "he plants" so-called — not a very elegant appellation but easily understood, and the older members of the craft will, no doubt, remember the incident of that very successful cultivator.

William Bennett, by careful selection, secured mag-

nificent forms of *Dracena terminalis* and also a beautiful special form of *D. terminalis stricta*. His houses, filled with both, were a sight to be long remembered by all who saw them, and a profitable one for him. I notice that Robert Craig is following along on similar methods with several florists' specialties. *Dracenas* have not, of late, been seen so abundantly in fine color as they once were, but it is possible to do them just as well as they ever were done and there is nothing finer in decorative effect for home adornment, — select well-colored top-cuttings.

Starting as aforesaid, with a well-defined idea of what we want, the principle of selection may be applied in hybridization, selecting as parents those forms showing most distinctively the qualities desired, and again selecting from the seedlings those in which the requisite points are most strikingly in evidence. Enumerable citations might be made, but our young men must think, reflect, and consider.

W. R. Smith

The Oyster-Shell Bark Louse

This insect is widely distributed throughout the country. It is especially prevalent in New England; in fact so much so that the statement has been made that there is hardly an apple tree anywhere in this region which is not more or less infested. Apple trees are favorite host plants, but the insect is found on a great many trees and shrubs, among which are the plum, pear, cherry, maple, willows, currant, lilac, etc.

In this altitude the insect has only one generation a year. The winter is passed in the egg stage, under protection of the female scale covering. The eggs are hatched the latter part of May or early June. The young light-yellow lice crawl around for a short time and then insert their beaks into the bark and proceed to suck out the sap. A waxy substance is secreted from the back of the insect which on hardening forms, together with the cast-off skin, a protective covering of scale. The female scale remains fixed in the place where it settles down. Egg-laying begins about the first of August and when this is completed the insect dies.

The oyster-shell bark louse is kept in check by several parasites and in a great many places so effectively that it seldom becomes destructive to trees or shrubbery. In other places these parasites do not seem to be doing their duty and the oyster-shell bark louse is looked upon as a worse pest even than the San José scale. The best time to fight the insect

is soon after it is hatched and before it has formed a sufficient protective covering. The remedy is normal kerosene emulsion and it should be applied two or three times during the first part of June. The insect may also be destroyed in the winter time, in the same way as the San José scale — by spraying with strong kerosene emulsion, crude oil, or the lime-sulphur wash, but summer spraying is no more expensive and it is more efficient.

The normal kerosene emulsion is prepared as follows: dissolve one half pound of laundry or whale oil soap in one gallon of boiling water; add two gallons of kerosene and stir until the soap-suds and kerosene are thoroughly mixed. This can best be accomplished by pumping the mixture into itself with a force pump, using a nozzle which throws a solid stream. This forms the stock solution which can be kept for two or three weeks. For making the spraying solution, use three parts of this stock solution to seventeen of water.

In applying, a good force pump should be used, with a nozzle which throws a very fine mist-like spray. A nozzle of the Vermorel type is best. The application should be made during a bright sunny day.

A. E. Stein

R. I. Coll. of A. & M. A.

Rose Diseases

II

5. POWDERY MILDEW. (*SPIREROOTHECA PANNOSA*)

The powdery mildew develops very rapidly on plants, either in the greenhouse or outside. It is well-known by nearly all growers and needs no extended description. The leaves appear to be dusted over with flour. If left to itself the mildew will eventually ruin its host.

Treatment. Evaporate sulphur on a stove or by painting on the pipes. A third method is to close the house about eight o'clock, fill it full of sulphur by means of bellows, then let the temperature run up to 80 or 90 degrees, having it up to 75 degrees to start with. Ventilate slowly after leaving long enough for the sulphur to settle. Potassium Sulphide, one ounce to two gallons of water, makes a good spray.

Keep the plants in a healthy, thriving condition, as mildew is brought on by lack of food, irregular feeding, exposure to drafts, and heavy waterings.

6. BRONZING

Grafted tea, Bridesmaids, and Bride roses are particularly susceptible to a spotting or mottling of the leaves, due to a physiological cause. The spots are one-sixteenth to one inch in size, generally turning yellow, although not always, and the foliage falls to the ground. Affected leaves are confined, first, to where the stem is cut and a new branch starts—the leaf at the base is bronzed many times; and, second, to leaves where the axillary bud becomes rubbed off. Small weak stock or stock making a watery growth is very liable to bronze. The spots have the same general characteristics of black-spot.

Treatment. Bronzing is of little consequence as it usually occurs below the point where the flowers are cut, but it might be mistaken for something more serious, so is inserted here. There is no known remedy. Give as good cultural conditions as possible and there will be little trouble from it.

7. NEMATODES. (EEL WORMS)

These microscopic worms cause enlargements on the roots which are often taken to be disease. The worms are abundant in warm climates and the greenhouses offer favorable conditions to them. They get in on plants, in soil, or in manure.

Treatment. Examine all roses before planting and destroy any showing root galls. Freezing will kill many, and sterilization is a sure thing. Lime sprinkled on the bed or mixed with the soil will destroy large numbers of them. Infection may take place by growing plants, subject to nematodes, in soil where infested plants were grown, as roses planted where violets were raised, and so on.

With the mention of another mildew, this article will close. This is the *Peronospora sparsa*, a mildew more penetrating and harder to find than the *Sphaerotheca*. The treatment is the same as for the anthracnose. The disease does not exist to any very great extent.

Ornamental Horticulturists

One cannot take up a trade paper without seeing a photograph of the achievements of some "American florist," in the shape of a house of some specialty or another grown to perfection, or a "design," basket, or spray, the work of some artist, that even with the meager idea conveyed by the reproduced photograph gains our admiration, but how seldom—and in this case surely "the exception proves the rule"—do we see pictured or written up, the description of outside work, that demands anything but a fleeting glance? A visitor from abroad landing in Boston, and being fortunate enough to bear the credentials that would ensure his pilotage through the park system, and some of the "show" places around the Hub, would go away with a very exalted idea of the way "ornamental horticulturists" were conducting their work in this vicinity. But let the same "foreigner" meander at his own sweet will, and visit some of our suburban districts, where rich people have made their homes, and there would come a "change o'er the spirit of his dream."

Within the last few weeks, I have had the opportunity of seeing at close range some estates where thousands of dollars have been expended, and the return to the man footing the bills must have made him wish that he had never met or entered into a deal with a "landscape-gardener." In some sections the painful similarity of the planting is more than noticeable, the only perceptible distinction being in the size of the estate; and the placing of the different varieties in a mixed bed indicated that the person in charge was simply totally ignorant of the nature of the species he was handling.

As these last remarks may not be specific enough, a few examples may be quoted. A glaring instance that occurs to me was where a bed narrowed down to an acute angle, said angle caused by two small walks, and clear up into the apex of this angle was planted weigelas that, to make room on the walks, had to be pruned back until they were mere stubs, entirely destroying the beauty of the group. This same fault of planting too close to the verge was to be seen very frequently. Where groups of one variety were used they were planted too closely, and where mixed beds were to be seen it was often the case to find the tall subject on the outside of the bed instead of being placed further in. The same fault could be found with herbaceous beds and borders. No doubt in time these mistakes will occur less frequently, for property owners are becoming better acquainted with how their grounds ought to be handled and are rapidly acquiring a knowledge of the nature of many of the subjects used for the beautifying of their estates, so that in the near future the firms doing work in the loose manner described will be forced out of the business. From inquiries I carefully made I found that much of this work had been done by cheap help and it certainly looked it.

R. L. Adams.

Charles Ingram

Echoes from England

NEW PLANTS AT THE TEMPLE SHOW

The finest of all our horticultural exhibitions is the Temple Flower Show which was held last week in London, lasting for three days, May 30, 31, and June 1. The groups of shrubs, hardy plants, roses, indoor flowers and orchids were, as usual, magnificent, and the tents were thronged with visitors. I will just mention a few of the most striking plants exhibited.

The sensation of the show undoubtedly was the climbing rose Lady Gay, a hybrid wichuraiana of American origin. It was finely shown by Messrs. William Paul & Son, Waltham Cross, one of our greatest firms of rose growers. As it is an American introduction, it is unnecessary for me to say much about it, but the large pillar-shaped plants, their slender, drooping growths wreathed with the bright rose-colored blossoms, were greatly admired, and Lady Gay was the talk of the town, so far as those interested in gardening were concerned. The advent of Lady Gay bids fair to create a slump in Dorothy Perkins, for it is evidently a better thing altogether. It will undoubtedly be largely planted; everybody made a note of it.

Rose David Harum. — This is another new rose exhibited at the Temple Show by Messrs. Paul & Son, of Cheshunt. It is a beautiful hybrid tea, of a pleasing rose or rose pink. This variety attracts more by its elegant form perhaps than by its color. The petals reflex and come almost to a point, thus giving the flower quite a distinct appearance, after the style of La France. It will probably prove a good rose for market growers, for it is evidently a good grower and blooms freely.

Philadelphia Rambler. — Another rose, new over here, was also shown, and, like the two already mentioned, received an award of merit. It is after the style of Crimson Rambler, but the flowers are a deeper shade. If it flowers as freely as Crimson Rambler, it should prove a very good thing both for pot culture and for the garden. Shown by Hobbies, Ltd., Norfolk.

A new ivy-leaved pelargonium, called The Hon. Mrs. Boyle, was exhibited by Mr. Charles Turner, Slough. This is a very welcome addition, as good ivy-leaved pelargoniums are none too numerous. We

use them largely here for window-boxes and they brighten up many London houses during the season. The new variety is a free grower, and has large, double, rose pink flowers, borne freely in bunches. Monsieur Rosaleur is another new ivy-leaved pelargonium, shown by Mr. Godfrey, Exmouth. It is of vigorous habit, and has flowers of deep carmine.

A new primula that attracted much attention is Primula Arendi, exhibited by Herr George Arends, Ronsdorf, Germany. It is said to be a hybrid between *P. obconica* and *P. megaseefolia*, but it may be described as a very fine variety of *P. obconica* in general appearance. The flowers are large, freely produced, of rich lilac-pink coloring. Primula obconica is one of our most valued plants for pot culture in the greenhouse, and most probably P. Arendi will make a good companion to it.

A new verbenia shown by Messrs. Cutbush & Sons, Highgate, London, and called The King, is a good deal like that invaluable pink variety, Miss Willmott, which is grown in this country by the thousand, but the flowers are of a richer shade of color.

Perry's variety of Phlox canadensis, bearing a profusion of beautiful pale blue flowers, is a fine border plant, and indispensable in the hardy flower garden. It was finely shown by the raiser, Mr. Amos Perry, Winchmore Hill, London. One could hardly see any foliage, owing to the wealth of flowers. It is altogether a great improvement on the type.

A very handsome form of Azalea indica with very large deep scarlet flowers was shown by Messrs. Sander and Sons, St. Albans. Some of the flowers were as much as five inches in diameter.

All the above mentioned plants are new to commerce and each received an award of merit from the Royal Horticultural Society at the great Temple Show.

The highest price ever realized by a single orchid plant at an auction sale, namely 875 guineas, was paid for a plant of *Odontoglossum crispum* variety, Roger Sander, sent by Messrs. Sander and Sons of St. Albans, England, and Bruges, Belgium, to Prothero and Morris' auction rooms in London last week.

Harry H. Thomas

Fothergilla Gardeni

Syn. *F. alnifolia*, the subject of illustration on our title-page this week, is one of our most desirable native shrubs. The plant grows from three to six feet in height and produces early in May, before the leaves appear, numerous terminal, ovate spikes of

beautiful white flowers. It blooms with the Red-buds, at a time when there is no other really good white shrub, and fully two weeks before the spiraeas, deutzias, etc. This shrub is perfectly hardy and only needs to be better known to become popular.

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

Only six weeks remain until packing up for the trip to Washington will be in order. There are conventions and conventions, but none are so full of interest to so many departments of horticulture as this annually recurring S. A. F. meeting with its unrivaled business and social advantages. The fact that the society reaches its majority this year, being 21 years of age, lends an added interest and, with the attractions offered by the Capitol City, a very heavy attendance may reasonably be counted on. A fine exhibition is assured. The proceedings will be full of attraction. Let every one who can, come and help to make this a record-breaking convention in everything that makes for the prosperity of the national society and the good of the profession.

With this number *HORTICULTURE* begins its second volume. Started with the conviction that the horticultural profession would welcome and support a weekly conducted on broadly helpful lines, *HORTICULTURE* has been, from the first issue, a success. No plunging has been indulged in; we have set off no fire-works, being contented to base our claim for popularity on the literary worth, artistic excellence, and practical value of our contributions. It is highly encouraging to the promoters of the paper that its merits have been so quickly recognized, its shortcomings so magnanimously overlooked, and its advertising value so thoroughly tested by the leading horticultural firms. It is fitting that we here reiterate the words of our "Greeting" in *HORTICULTURE*'s first issue: "Its sponsors express the earnest wish that, favored with the encouragement and forbearance of a host of good friends, it may grow better and better with each issue, take deeper root in the affections of all those who find their life work among flowers and plants, fruits and trees and gardens, and, that it may, in due time, reach the eminence to which it aspires, as the foremost American exponent of horticultural aspiration and achievement."

Signs are not wanting to indicate that the rose as a garden favorite is coming rapidly to the front, not in a visionary, poetic way, but in the most practical manner. The public has demonstrated at every recent opportunity that there is a wide-spread and sincere interest in the questions of rose culture and the reliability of varieties offered for garden planting. In short, people seem ready to undertake the serious work necessary in order to establish and maintain rose gardens, and that is practically the whole battle, for, with the willingness to make the investment of labor and devoted attention, is the assurance of results which cannot but charm and awaken enthusiasm of the liveliest sort. Florists and nurserymen can do their part towards this much-to-be-desired consummation, by studying the rose from the standpoint of its adaptability to their immediate neighborhood, so that they will be able to impart that knowledge of the needs of the Queen of Flowers, which is so deplorably lacking. A fruitful harvest awaits the man who plants the educational seed now, particularly in the line of ever-blooming roses, which, as M. H. Walsh confidently predicts, is destined to push very hard the old-fashioned hybrid perpetual type. Killarney, The Burbank, Baby Rambler, Maman Cochet, and others might be named as varieties that have already acquired a prestige that will extend to the balance of the list named by Mr. Walsh as soon as they become better known.

By all means adorn the railroad-station grounds. If the railroad company is not disposed to do it, the citizens should undertake it, and the local florist or nurseryman can afford to contribute liberally to this or any other public improvement that tends to a better appreciation and demand for his goods. But there is a right and a wrong way in station planting as in everything else. The subject has been receiving much attention of late in the magazines and the daily press. The railroad corporations that have made effort in this direction, merit commendation, particularly the Boston and Albany which has set a shining example for the world, the educational value of which can not be overestimated. There is however, one other New England railroad system that, instead of putting the planning and planting into competent professional hands, as the B. & A. did, chooses to spend its money through the medium of its station agents, making the work competitive and awarding prizes annually. The results are not exactly such as to gain any surplus renown for station-master horticulture. Among the "unique and beautiful displays" presented at one station there were last season, according to a local paper, "plainly and artistically worked out in living plants, representations of a farmer being chased by a goat, while a Chinaman attempts to get out of the way, an equestrian statue of George Washington, holding in his hand a hatchet; a full-rigged ship, and a representation of Liberty Bell."

A remarkable collection, surely! We would suggest that it be augmented by the representation of a full-rigged dining car (which would be a rare novelty on that particular railroad), flanked by a carefully worked-out group showing a lady and a conductor discussing as to whether her youngster had yet reached the fare-paying age! Verily, great are the possibilities of railroad gardening.

WHOLE SOME CHESTNUTS

Now that considerable space on greenhouse benches and in frames must necessarily be empty, utilize some or all of it by sowing seeds of useful herbaceous plants; if these seeds are put in now, good strong plants can be had for flowering next season.

Pay attention to all indoor fruit. On peaches and nectarines leave only a little more wood than will be required for next year. Tie in to prevent crowding, and to allow all light possible for the fruit. Give ventilation whenever possible; a little crack of air even at night is beneficial. Don't over crop, rather strive for excellence in size and flavor. Keep the soil stirred indoors the same as you would out in the open.

Support hollyhocks and other tall growing plants with stakes. Still keep dusting melons with some insect preventive, and, if you have them planted in large frames, keep the glass over them; only raise the frames enough to let the vines get outside. This can be done by putting bricks underneath each corner of the sashes.

If the weather is dry in your neighborhood it will pay you to water out-door roses and sweet peas; do it evenings or mornings. In addition to the benefits to the roots therefrom, the moisture cools the atmosphere enveloping them, which acts on them as a good bath does on us.

If you have not already planted the roses intended for winter blooming, do so now, but before planting, clean your benches thoroughly, then whitewash them. A good coat of white lead paint is also almost a necessity. It will not only make things look clean and sweet, but it will make things in general very inhospitable and disagreeable for insects and bugs, creepy things that may have found congenial quarters in the house.

Keep cinerarias and primulas shifted as often as a careful scrutinizing will dictate. Don't stunt them; if you do you will have small flowers on scraggy plants.

If you still believe in the good old way of blanching celery by banking with soil, do it when the soil is dry and first tie the heads with matting, soft half-rotted matting is the best, and don't tie any further up the head than you intend the soil to be. Try earthing up leaks in the same way as celery. You will be surprised at the result. Perhaps you are in the habit of doing so; if you are so much the better.

PERSONAL

Mr. Smith and daughter, Mrs. J. A. Budlong, of Chicago, have gone to Riverside, Providence, R. I., where they will spend the summer. They will be joined later by Mr. J. A. Budlong, who will make the entire trip from Chicago to Providence on his bicycle.

William Tingley Henderson, Jr., a popular employee of Thomas F. Galvin, was tendered a complimentary dinner at the Bass Point House, Nahant, on June 25, by his fellow employees. At the conclusion of the dinner he was presented with a handsome silver loving cup.

BUFFALO PERSONALS

Recent visitors: Ed. Koplit, representing J. W. Sifton Mfg. Co., John Osborne of Bonnot & Bro., New York, N. Y.

Charles Kumpf of Peach street, a leading florist, was presented with an eight-pound American beauty a few days ago.

NEWS NOTES

The Bay State Nursery Co., of N. Abington, Mass., has purchased the Somers farm in Rockland, and will transfer its herbaceous department there in the fall.

Public-spirited citizens of Newton, Mass., propose to buy and present to their city, the greater part of the Governor Claflin estate known as "The Old Elms." The property comprises some 750,000 square feet, includes the beautiful knoll upon which the mansion of the late governor stands, and practically all of the majestic old trees which have made the estate one of the show places of Newton.

HORTICULTURE mentioned a few weeks ago the opposition of Bishop Leonard of Cleveland to floral decorations about the altar upon wedding occasions. This sentiment has recently taken definite shape and the altar society has prepared rules governing decorations, which are to be furnished to all desiring to use the chapel for a wedding and to all artists. These rules do not apply to the walls and aisles which are still free for the exercise of the decorators' ingenuity.

George Hollis, of South Weymouth, Mass., is showing a seedling blush-rose peony which is the peer of any variety ever raised. Its name is not fully settled, but will be identical with that given a wee Hollis nephew who came into the world a few days ago. Gypsy, a single, deep pink Japanese of unique character, Beauty's Mask, a light rose, and Admiral Dewey, Maud Dean chrysanthemum color, are among other valuable seedlings now flowering for Mr. Hollis.

A victim of the wreck of the New York Central "Twentieth Century Flyer" at Mentor, O., June 21st, was John R. Bennett, of Danville, Pa., and New York City. He was a celebrated and wealthy patent attorney, and owned a handsome and extensive country seat at Danville, of which the conservatories, some 75,000 feet in extent, were chiefly used for growing roses for commercial use. Lawrence Cotter, late of Boston, and a well-known grower, is the superintendent of the greenhouses. It is not known at present what changes may ensue at Danville from this deplorable tragedy.

BUSINESS CHANGES

The business of Jacob Sidenberg & Co., at Hempstead, L. I., has been purchased by Alfred Funke, of Evergreen, who will take immediate possession.

The Holloway Floral and Seed Company has been incorporated at Dallas, Tex., with a capital of \$25,000. Incorporators: R. C. Bryant, W. M. Robinson, C. W. Robinson.

BUSINESS CHANGES IN CHICAGO

Mangel, the retailer, has bought out the interest of his partner, J. G. Johnson, who severs his connection with Mangel's 47th street store.

H. Koropp, who disposed of his interest in the Sheridan Park Floral Co. to L. Koropp, has leased the store and greenhouse of Albert Fuchs, 2059 Clarendon avenue.

P. P. Risch and J. P. Risch of Weiland & Risch, recently bought out the interest of their partner, J. P. Weiland, Chicago, who has retired. The new management will devote its entire glass to roses.

OUTDOOR ART AND CRAFT

Arlington, Mass., has appropriated \$5,000 for the suppression of the gypsy and brown-tail moths. This is in addition to the \$6,000 appropriated last fall and the State appropriation.

The trustees of the Massachusetts Society for Promoting Agriculture have imported some parasites from Germany, which are known there to be injurious to the gypsy and brown-tail moths, and experiments are now under way which, it is hoped, will produce satisfactory results.

A telegram from San Francisco, June 28, states that a box of insects that are expected to destroy the gypsy moth in Massachusetts, has arrived there on the steamer *Manchuria* from the Orient. The insects, which are like ants in appearance, deposit their eggs in the larvae of the moth. They come from Japan.

Theodore Salisbury Woolsey, Jr., has returned to his home in New Haven after a year's absence abroad in forestry work for Uncle Sam. He inspected trees in northern India, France, and Germany, and had a trip that abounded in adventures. After a few days' rest he will return to work in Washington. Mr. Woolsey is a graduate of Yale, 1901, and also of the Yale Forest School. — *Transcript*.

The cabbage hair-worm is described by the department of agriculture as resembling a piece of basting-thread, of the thickness of a strand of corn silk, white in color. Its length varies from two to nine inches, but reports have been received of a creature found in the heads of cabbage measuring nine feet! The imagination of newspaper writers as to color runs riot through "green, white, light red, olive green, and yellow."

Many popular names have been bestowed upon it, including "cabbage snake," "snake," "snake worm," "serpent," "reptile," and "cabbage rattlesnake."

A Metropolitan Park Association, with a large and representative membership, has recently been organized in New York City. Its purpose is to promote the systematic establishment of parks throughout the city, especially in the crowded tenement quarters. The rapid increase of the tenement population demands that measures be taken to provide adequate breathing spaces in the congested sections. Hitherto, when new parks have been laid out, they have been located usually in the less crowded districts, in response to the pressure of the real estate interests thus benefited. The new association will urge the claims of the poorer neighborhoods. A careful study of the condition and needs of the most congested sections will be made and a careful record of all information bearing on proposals for parks will be kept on file.

OBITUARY

Thomas Hincliffe, a prominent florist of Racine, Wis., died on Sunday, June 11, aged 62 years. He leaves a widow, two daughters and two sons. He came to this country from England when a young man, and after many years spent in the vicinity of Boston, took up his residence in Racine. He was a member of the S. A. F., and was esteemed by all who knew him.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY

Both in number of exhibits and quality, the exhibition of June 24 and 25 fell considerably below that of 1904. This is not at all surprising, when the long, drouthy spell, which severely checked the growth of roses, and, at the same time gave insect pests a clearer field, is taken into account. Coming at the close of a week of almost persistent rain, with very little sunshine, the quality of blooms shown was remarkably good. Very few novelties were noticed. Of these latter Frau Karl Druschki was the best, and was greatly admired.

As at many previous shows, the lion's share of the rose premiums went to M. H. Walsh, who had charge of Miss S. B. Fay's exhibits. In a good contest for the coveted Theodore Lyman prizes, calling for 24 distinct named varieties, three blooms of each, Miss Fay captured both first and second, W. J. Clemson being a good third. For the society's prizes in the classes for 12 varieties, three of each, 6 varieties, three of each, 24 varieties, one of each, and 18 varieties, Miss Fay took all the first prizes. A. F. Estabrook, George Barker, gardener, was second for 18 varieties. For 12 varieties C. C. Converse, D. F. Roy, gardener, was in the lead; for 6 varieties, second prize went to A. F. Estabrook; the same gentleman was also second for 24 Mme. Gabriel Luizet, Miss Fay being first in the latter class.

For 6 Baroness Rothschild, first went to the estate of John C. Chaffin; we were delighted to see exhibits from this old and honored garden after a long course of years; Miss Fay was second and C. C. Converse, third. The last named was also first for Mrs. John Laing. For Ulrich Brunner, Miss Fay and C. C. Converse were the successful competitors. For any other variety, Miss Fay was first with Mrs. R. G. Sharman-Crawford, and second with Margaret Dickson; W. J. Clemson, third with Magna Charta. For 3 blooms of a new variety, introduced since 1902, Miss Fay won with Frau Karl Druschki. For 100 bottles, arranged for effect, there was, as usual, strong competition. The prizes went to Miss Fay, Mrs. E. M. Gill, W. J. Clemson, Estate of John C. Chaffin, and E. L. Lewis in order named. Miscellaneous displays of roses were made by Dr. C. G. Weld, W. C. Winter, Mrs. E. M. Gill, Mrs. E. A. Wilkie, F. J. Rea, and Mrs. Henry L. Foote. The last named lady, who is an enthusiastic amateur grower at Marblehead, showed a stand of about 100 varieties of teas and hybrids teas, all grown in the open, an interesting and very suggestive exhibit. A special class might well be allotted to this section, another year. Their persistent blooming qualities should make them very popular. M. H. Walsh had a dozen fine plants of Lady Gay, which were much admired.

William Whitman, M. Sullivan, gardener, took first and second for 18 roses of sweet Williams, Anthony McLaren being third. Paeonies were largely shown and divided honors with roses in the estimation of many visitors. T. C. Thurlow, E. J. Shaylor, Mrs. E. W. Gill, A. F. Estabrook, and George Hollis all had fine displays. Mr. Hollis had some very promising seedlings. Three of these, No's 60, 65, and 66, received honorable mention. Julius Heurlin had a beautiful collection of hardy perennials. W. Whitman and F. J. Rea also had displays of these popular garden plants. Mrs. J. L. Gardin, William Thatcher, gardener, had a collection of campanula medium in 1904. R. J. Farquhar & Co. loaned numerous palms for decorating the hall. H. A. Dreer and Robert Cameron had fine tanks of aquatics, those from Harvard Botanic Gardens showing the hardy varieties, those of H. A. Dreer includ-

ing both hardy and tender. Among the tender varieties displayed were the Lily of the Amazon, Victoria Trickeri, bud and flower; the new day-blooming synnapha, Pennsylvania, color rich blue; O'Marana, immense flowers of fine pink; Dentata magnifica, large, pure white; Mrs. C. W. Ward, rosy-pink; and Wm. Stone, beautiful violet-blue. Of the hardy varieties the tuberosa Richardsoni, Wm. Doogue, James Brydon, Mariacea flammea, tuberosa rosea, and Robinsoni were very noticeable. J. W. Howard received honorable mention for Salvia Sclarea, color a rich royal purple.

The strawberry display was very good, seeing the berries had hardly seen the sun for a week. The principal prize winners were G. E. Wheeler, L. E. Coburn, George V. Fletcher, John Ward, Miss S. B. Fay, and Samuel H. Warren. In the Theodore Lyman class for four quarts of any variety, George V. Fletcher won with splendid Marshalls, Miss Fay, second, and John Ward, third, with same variety, A. W. Clark, fourth, with Cardinal, a very promising new variety. Marshall was once more the most largely shown. Sample seemed to come next in popular favor, followed by Minute Man, Glen Mary, and Brandywine. Senator Dunlap seemed to be popular with the market growers. Some rather good new sorts were shown. N. B. White took first in the novelty class with Seedling; A. W. Clark, second with Cardinal; George V. Fletcher had the best cherries, and W. C. Winter was first for grapes with well-colored Black Hamburgs.

There was a splendid display of seasonal vegetables. For best collection arranged for effect W. W. Rawson, E. L. Lewis, and W. J. Clemson took the prizes. Other prize winners in the various classes in addition to those named were W. Heustis & Son, George D. Moore, Edward Parker, A. E. Hartshorn, W. Whitman, I. E. Coburn, and J. J. Lyons. Winning lettuces were Deacon, black seeded Tennis Ball, and Immensity. Gradus was the champion pea. We were glad to see the Arlington growers coming once more to the front, and regaining in some measure the laurels wrested from them by the skillful Taunton and Worcester exhibitors during the past few years.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The picnic to be held at Randolph Grove on July 25, promises to be a great success. The special committee appointed to prepare a program of sports and games consists of J. W. Duncan, W. A. Riggs, F. E. Palmer, and Duncan Finlayson. There will be contests to suit every one, and the ladies and children will not be forgotten. Already some of the members are in training for the events.

A delegation will visit William Sim, of Cliftondale, on July 1. A cordial invitation is extended to those who are not club members to attend and enjoy this field day. Leave North Union Station at 1:55 o'clock.

LENOX HORTICULTURAL SOCIETY

The rose and strawberry show by this society on June 22 was an attractive affair. The exhibitions of perennials by Mrs. John E. Parsons and Miss Adele Kneeland were particularly noticeable and received awards. Special diplomas were given to Lager & Hurrell, of Summit, N. J., for a display of orchids, to W. D. Curtis for a vase of poppies and to Mrs. R. E. Winthrop for carnations. Charles Lanier, H. H. Cook, John Shante, William D. Sloane, Morris K. Jessup, and Giraud Foster made prominent displays and received the majority of prizes. James T. Scott of Tarrytown, and John Arolino, were the judges.

AMERICAN SEED TRADE ASSOCIATION

The twenty-third annual convention of the American Seed Trade Association is now but a happy and pleasant memory to all who were fortunate enough to be present. In point of attendance, enthusiasm, and importance of business transacted, as well as the entertainment feature, this convention will rank with the most successful the Association has ever held. Alexandria Bay, in the heart of the Thousand Islands, was the place chosen for the convention, and no more romantic or beautiful spot could have been selected.

The convention opened at 10:30 Tuesday morning, June 20, President C. M. Page in the chair. The first business was the elec-



W. H. GRENELL, PRESIDENT-ELECT

tion of new members, and the following names were added to the rolls—Darch & Hunter, London, Ont.; The Hogg-Lyle Co., Mariposa, Ont.; O. H. Dickinson, Springfield, Mass.; H. C. Bassler, Waterloo, Neb.; The Planters' Seed Co., Springfield, Mo.; F. Williams, Belleville, N.Y.; W. A. Denison, Ellensburg, N.Y.; William Ewing, Montreal, Can.

Then came the president's address, which dealt with the objects and growth of the association. He enumerated the benefits derived in the matters of reduced postage and express rates, and reviewed the work accomplished by various committees. Mayor Delaney welcomed the visitors to Alexandria Bay. After this came one of the many treats of the meeting, an address by Major J. H. Durham, descriptive of the St. Lawrence region. In the afternoon the members and their friends were entertained by Mr. Grenell with a steamer ramble among the islands. An evening session was held at which the papers of L. L. Morse, William Henry Maule, and C. L. Allen were read and discussed.

Wednesday morning was given up to business and resulted in the election as officers of W. H. Grenell, Pierrepont Manor, N.Y., president; L. L. May, St. Paul, Minn., first vice-president; G. B. McVay, Birmingham, Ala., second vice-president; and re-election of C. E. Kendel, secretary-treasurer. An informal ballot was taken on the place of next meeting, and San José, Cal., received the largest vote.

A banquet Wednesday evening, given jointly by Mr. Grenell and The Crossman, a steamer ramble Thursday afternoon as guests of A. T. Ferrell, of Saginaw, Mich., and a searchlight ramble Thursday evening closed the meeting. The generous hospitality of Mr. Grenell was most heartily appreciated.

and he was the recipient of many cordial expressions of gratitude and good will.

A pleasant feature of the convention was the attendance and participation of representatives of the Secretary of Agriculture in the proceedings.

Mrs. Page and Mrs. Grenell, wives of the president and president-elect were presented with tokens of esteem by the friends and admirers of themselves and their popular husbands.

FUTURE EVENTS

The North Shore Horticultural Society have postponed the rose show at Manchester, Mass., until July 6.

The Morris County Gardener's and Florists' Society have prepared an attractive schedule for their tenth annual show, which is to take place on October 26 and 27 at Madison, N. J.

ROSES

A paper read before the Gardeners' and Florists' Club of Boston, by M. H. Walsh.

Mr. President and members of the Gardeners' and Florists' Club of Boston:

I thank you most heartily for the honor you confer by inviting me to speak a few words to you this evening on rose growing. The subject is one which you are all familiar with, being either professional gardeners or florists, or both. It will, of course, be old and somewhat dry; so much has been said and written I feel there is nothing new I can speak of, and at most my remarks this evening can only recall to your memory what many of you learned in your apprenticeship in other lands. There is no secret in the growing of garden roses. The fundamental principles of growing roses as taught and practised forty-five years ago in England that being as far as my memory serves me, hold good to-day; while we have to modify to some extent owing to climatic conditions, the salient and most important essentials apply to rose growing in the open ground here.

The question of soils, pruning, and all relating to roses at that time was discussed through the *Gardeners' Chronicle* and *Shirley Hibbard's Floral World*. This book I peruse with a great deal of pleasure. It was comparatively a new subject. Some new varieties had been originated since 1835, when the old rose La Reine was first discovered, and this rose was the first break of the new class called hybrid perpetuals or hybrid remontants. This class multiplied very rapidly after 1860; while at that date the varieties numbered only about twenty-five or thirty, to-day they run into the hundreds. Many which were grown at that time are displaced by superior kinds. It is a most encouraging sign to see an increased interest throughout the country. While I cannot expect to tell you anything but what you already know, it may interest you by recalling pleasant recollections.

THE GROWING OF HYBRID TEA, HYBRID PERPETUAL, AND CHIMBRE, ROSES.

There are several phases and aspects in the successful growing of roses. In order to grow fine roses each one must be closely observed. Neglect or failure to carefully attend to the requirements of this flower will manifest itself in the appearance of the plants. They will speak for themselves, as it were, and will make evident to the familiar and keen observer whether they have received the proper treatment and so forth, for their best growth and development.

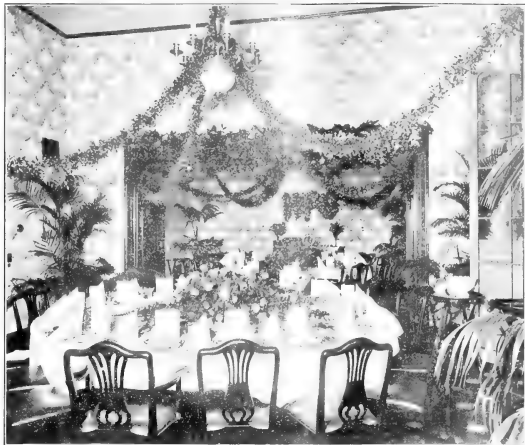


TABLE DECORATION AT BANQUET TO ROSE SOCIETY VISITORS, HARTFORD

See page 27, June 1

The important essentials are soil, location, quality of stock, pruning, watering, guarding against insects, fungus and mildew, hoeing, etc. All these contribute to the health and vigor of the rose plants. Neglect or failure to attend to them will show to a greater or less degree, as they all combine to make the perfect rose.

That hardy roses will grow in ordinary garden soil cannot be questioned, providing drainage, location, and so forth are right. The quality of the flowers, however, will be just in proportion to the culture they receive.

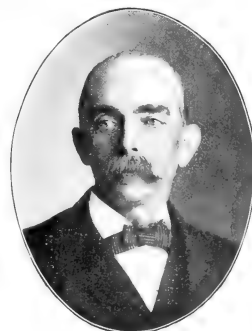
Hybrid perpetual roses delight to grow and thrive best in a stiff loam. A little clay mixed in the soil is beneficial; this retains moisture and keeps the soil cool. Good drainage is an important factor, as roses will not thrive satisfactorily in cold, stagnant

soil; therefore drainage should be provided if the subsoil is not porous to leach away surplus water. It is not during the growing season, however, with our usually hot, dry summers, that improper drainage affects the health of the plants but in the early spring when growth should take place; the plants will show the effects having winter killed badly and being loath to start. This is caused by cold, wet ground—probably the roots encased in ice during the past two months. Therefore, while this seems a small matter, it is one of the essentials which should not be overlooked as this contributes largely to the health of the plants. Roses do not like cold toes.

Location is another important essential to the proper growth of roses, an exposure from south east to south-west being the ideal spot. The early morning sun is most beneficial, as the plants make more growth from sunrise to 8 A. M. in the open than during the rest of the day. A spot sheltered from the strong winds and fully exposed to the sun should be chosen to get the most satisfactory results.

It is needless for me to remark that roses are gross feeders, and that means good, rich soil. The plants will tell you the condition of the soil. If in good soil, well cultivated by that is meant watered when necessary, keeping from insects, fungus, and mildew the foliage will be luxuriant and strong and a pleasure to look at; if, on the other hand, the growth is weak and the foliage more yellow than green, it would denote poor soil, poor drainage, or heavy or lack of sufficient plant food. The keen observer quickly detects the condition and, of course, takes steps to apply the remedy.

(To be continued)



E. ALBERTSON

President-elect American Association of Nurserymen

The Chicago Florists' Club gave a banquet and convention rally at Hotel Bismark on Friday, June 3, at 7:30 P. M. President J. C. Vaughan of the S. A. F. related what he saw of interest to florists on his western trip. Special invitations were extended to the club members and their friends.

HARTFORD FLORISTS' CLUB

Report of Committee on Window-box, Porch,
and Veranda Gardening

[Continued from last week's issue]

We have spoken of the influence that parks have in any city on the public in general, now let us consider what the influence will be by the introduction of window, porch, and roof-gardening into the busy, monotonous life of a city. Imagine window and veranda-boxes loaded with foliage and flowers on our school-houses, municipal, and business buildings and residences, vines growing over windows and hanging down over window-sills and balustrades. What a beautiful sight, worthy of a beautiful, progressive city. Imagine window-boxes in all their glory of spring and summer flowering plants, not only screening the unsightliness of rows of tenement windows, but giving them from the in and outside the cheerful, cozy appearance, which plant life alone can produce. Imagine the pleasure and joy of those under whose paintless and seedling are germinating to a seedling, the seedling are full-grown plant, the plant producing the flowers, and imagine the pleasure those flowers give to all, and the feelings and sentiments they will in their turn germinate and bring into life amongst those people who, in the pursuance of their daily hard labor, are not so fortunate as to know of the pleasures of those that have their garden and yards.

Imagine the good seed that will be sown into the hearts of the children of these crowded tenement districts—a seed that is bound to take root; for the soil in all human hearts is more or less alike, and it depends upon the cultivation whether the seed entrusted to said soil will grow to be a useful plant. Everything that can be done to create healthy, joyful life for the human race should be advanced, through a continued and united effort of all citizens of a community.

We horticulturists, florists, and gardeners, following a time-honored profession, should look upon our calling not only from a pecuniary, commercial point of view, but we should take pride in the well-proven fact that our accomplishments and our labors of progress in our noble profession are bringing more universal and wholesome enjoyment to the human race in general than almost any other profession, and we should do everything within our power to further the good work which is within our reach.

The cultivation of taste, understanding and love for plants and flowers means the advancement of the people to a full appreciation of our achievements, and with said appreciation will come the commercial remuneration, which we are desirous of following such principles. The method of bringing those desirable conditions about are surely not as difficult as they may appear to be. In fact, we believe that the florists are mostly to blame that window-box, porch and veranda gardening is not further advanced than it is to-day. We believe that if the commercial florists would have completed window-boxes for sale, from the least expensive up to the most elaborate, there would be a ready sale for them within a very few years. We believe that if the professional organizations all over the country would publish through the public press, articles giving plain instructions and descriptions how to proceed in this and other lines of horticultural and floricultural advancement, a general awakening to those desirable improvements would soon show itself to the benefit of the community in general, and the business interests of the florists in the end.

Wishing to practise what we want to teach, the following plain instructions and information for the people who may wish to make a trial in window, porch, and roof gardening, may be of use:

Window-boxes are easily constructed and can be made at a small expense. Taking ordinary spruce or pine boards for the construction, the box should be made the length of the windows' width, 6-8 inches wide and as deep. A box $3\frac{1}{2}$ feet long would therefore take about 12 feet of lumber, which would cost about 35 cents. The cost of labor, nails, and two coats of paint should not be more than that much again, and the result would be a very plain and well-constructed, durable box at a cost of 70 cents. The box must have six $\frac{3}{4}$ -inch holes in the bottom, which should be covered with broken pots, stones, or something that will prevent the falling out of the soil, but still provide drainage. It will take about one bushel of good composted soil to fill the box, which could be delivered by any florist for 50 cents.

The soil should be rich, composed in the bloom of rotted turf mixed with well-composed cow manure, leaf-mould, and a little sand. Now the box is ready for planting. Suppose the box was already on hand in the fall, it could be planted, say in December, with tulips, hyacinths and crocuses; planting the bulbs about 3 inches deep and keeping the box in a cool room or cellar with a fairly good light. Where the proper locality is not available, however, it will be rather difficult to obtain good results, as the bulbs are apt to grow too quick, stretching towards the light and coming into the bloom before they can be safely set outdoors. The box could, however, be placed at the inside of the window, and you would have your bulb display indoors; as the bulbs will not require too much watering, same could be given without damage to floors or furniture, besides a tin or zinc box on the in or outside of the wooden box would take care of that.

A box of the size herein described would take fifteen tulips, for the back row, ten hyacinths for the middle row, and about ten crocuses for the front and side rows. Daffodils, jonquils, snow-drops, etc., could, of course, be grown in such boxes.

After the bulb display is over, the bulbs can be taken up, and pansies, forget-me-nots, and daisies can be planted. A good effect would be to have the forget-me-nots in the back towards the window, the pansies in front of them, and a border of daisies in same position in which we had the crocuses. Ten forget-me-nots, fourteen pansies, and twenty daisies will fill the box nicely.

By about June the first it is time to establish the summer planting, and for that purpose we have an almost inexhaustible variety of plants, and effects are obtainable by proper selection of them to suit all tastes.

The following planting lists for window-boxes may be of use:

1. Cost of plants for one box \$2.25: two *Pennisetum Ruppelianum*, three heliotropes, two calceolarias, four sweet alyssums, four geraniums, two *Cobaea scandens*, two *maurandias*, two *Centaureas gymnocarpa*, and two *fuchsias*.

2. Cost of plants for one box \$3.00. Plants: one *Dracena indivisa*, six geraniums, four petunias, four *Vinca minor variegata*, four *German ivy*, two *fuchsias*, two coleus, two verbenas, two *begonia* Vernon, two *maurandias*, two nasturtiums, and two *lolas*.

3. Cost of plants for one box, \$5.00. Plants: two *Phlox anariensis*, four crotons, two geraniums, two *fuchsias*, four *Abutilon Savitzi*, six *fancy* begonias, four *Vinca minor variegata*, four *German ivy*, and two *Abutilon* *Eclipses*.

Other plants besides those mentioned in these three planting lists are, salivias, ageratum, hydrangeas, achyranthus, mignonette, dwarf camellias, gladioli, tulip crocuses, zinnias, marigolds, stocks, etc., etc. The same plants are of course also suitable for vases, baskets and tubs. This means well-filled boxes giving immediate effect. Planting

thinner means of course a saving and a good complete effect later in the season.

The boxes herein just described are such as would naturally require the planting material to be furnished by the gardener or florist, and as plain as they are constructed and as reasonable as are the prices, considering the class of planting material used, they are above the means of the poorer classes of people living in the crowded tenement districts. Just as well, however, as boxes can be made more elaborate both in construction and in planting for people of larger means, so can also much cheaper boxes be made and planted, bringing them within the means of even the very poor. Where there is a will there is a way. The man or woman proud of their home, can nail a box together of almost any kind of lumber, fill it with loam from a garden or the fields and fill same with annuals by planting seeds. Not counting the cost of self-provided labor, such a box can be made and filled with soil for 25 cents or less, and the seed itself will be still less expensive.

Such seed-boxes can be sown outdoors, beginning first week in April, and the following seeds can be used: petunias, nasturtiums, zinnias, *Phlox Drummondii*, nasturtiums, balsams, petaluccas, scabiosa, marigolds, morning glory, aster, candytuft, cosmos, goldfish, poppies, snap-dragons, violas, etc., etc.

Each seed package gives information as to height of plant, color of flowers, time of blooming, and instructions for sowing, so that it will be an easy matter for any one to form proper combinations of plants. A box can be planted with one showy variety alone or with a combination of suitable varieties, and the cost of seeds for one box of one variety will be 5 cents, and for three varieties, 25 cents; but the five packages in the box case will furnish enough seeds for five boxes. Therefore window-gardening is within the reach of all.

To our brother florists and gardeners, especially the commercial men, we would earnestly make the following recommendations:

First: To keep up to the times by growing and introducing such plants as are well adapted for such work, giving due recognition to all deserving varieties and novelties.

Second: To encourage this line of gardening by having some window-boxes tastefully planted on exhibition in front of their stores, ready for sale.

Third: To set the price for those plants at as low a basis as possible, so as to bring them within the reach of all.

Combined efforts along those lines will, we believe, result in a general adoption of window-gardening, will bring happiness to numberless homes, and help to beautify your city in no small degree—and that all to the ultimate benefit and satisfaction of the florists' business.

GREENHOUSES BUILDING OR PROJECTED

Emil Buettner, Park Ridge, Ill., is extending three of his old houses 120 feet each.

Puehlmann Bros., Morton Grove, Ill., have under construction another large addition to their plant, 7 houses, each 27 x 195, to be devoted to roses.

THE GLASS SITUATION

Greenhouse glass has been moving very rapidly during the past few weeks, and stocks in the hands of manufacturers and jobbers are lower than in years for this season. Factories are closed for the summer, and our advice to those who contemplate using glass during the summer or early fall is to get their orders in at once and save money, as everything points to higher prices very shortly.

CUT-FLOWER MARKET REPORTS

BOSTON The market has been quite active this week, owing to the many orders received from weddings and graduations. Jacquemint roses have had a good demand. Beauties have been plentiful, but roses in general are mildewed and much fault-finding is expressed by buyers. Carnations have been received in large quantities and the quality has been exceptionally good for this time of year.

BUFFALO The past week has been very satisfactory from a business standpoint, every day being a "hustle" from Monday until Friday. The school commencing was on, together with weddings, and much floral work in evidence, caused a good rush and hustle for a few days among all the retailers. Good prices prevailed, considering the amount of stock handled during the week, while the supply was twice as large as at previous seasons. More carnations, roses, and other flowers were to be had, and no doubt all growers will be satisfied with returns, save those who shipped peonies the first part of the week. The supply on dark colors was too abundant and they were a drag up to Friday, when a little light seemed to strike, and something was realized by selling in large quantities. White and light pink were rather scarce, the latter selling rapidly. Beauties and selected stock were good sellers, and the demand strong, but there was not a very large supply of Liberties. Beauties of all grades went, even the small buds. Sweet peas were of a poor quality, while lily of the valley found a good market. Southern Gladioli are being received, but the distance shows the effect on the flowers. Iris is coming in good quantity and quality, and so far has sold well, while smilax and green stock is in good supply.

CHICAGO The cut-flower trade displayed unusual activity the past week in all its branches, in spite of the fact that there was no extra demand by the city trade. The moving cause for this exhibition of energy was school-closing week. There was only one factor to operate against the general better tone of the trade, quality was lacking. Few choice teas were on the market. There was a good demand for anything of quality, and those who were fortunate enough to have roses answering that description sold their stock almost as soon as buyers sighted it. Under a light supply, American Beauties continue their upward trend and sales on fancy stock at \$1 per dozen are frequent. Peonies were an excellent support. The stock of N. C. Moore & Co. is exceptionally fine. Carnations are in shorter supply and registered an advance on any which showed quality. Boston Market is the local favorite and the best white for all purposes. Sweet peas galore. Vaughan & Sperry have the largest supply of fancy sorts; over 20,000 are received daily. Demand steady. Lilies are in sufficient supply. Lily of the valley is cleaned up daily. A great variety of outdoor stock is offered. N. C. Moore & Co. are the first to cut Cosmos and Clifford Burton, the fine yellow dahlia. Asters are promised in two weeks. The best firms in Chicago are handled by our advertisers. Out-door grown lily candidum is arriving from England and a fair demand exists therefor.

Theo. Wirth of Hartford, Conn., stopped over from a trip to Minneapolis, Minn., and will attend the Park Superintendents' convention at Buffalo.

LOUISVILLE Business the past week cannot be said to be disappointing, for no one is looking for an active market. The extreme warm weather, approaching the hundred mark, has had a stagnant effect upon trade.

The quality of roses and carnations is below the standard, but there is an abundance of both. Sweet peas are the stand-by, and fail in neither quality nor supply, in fact, it might be said they are the only cut flower for which there is an active demand. Lilies can be obtained, but the supply is small.

NEW YORK With the elimination of the greatest share of outdoor flowers, roses, carnations, and lilies are reaching a higher level in price than has been the case for some time. The quality is generally poor, but any advance, no matter if it be only for a few days, is welcome to the grower.

PHILADELPHIA The first three days of this week wound up any extra business for this season. There were a few weddings, commences, etc., which made quite a little extra demand, especially on roses, carnations, and sweet peas. The business generally dropped off the latter part of the week. Stock is not so good either in quantity or quality. Rose growers generally are replanting, and on that account roses will be somewhat scarce. There are a few very good Brides and Maids coming in from a cooler climate. The local stock of roses is very poor. There are some good Beauties coming from local growers, also some excellent Kaisers, which are bringing from \$1 to \$6 per rose, with a few specials at \$8. American Beauties are still selling well, and are easily the favorite roses in good work. The quality of sweet peas is poor, and they are selling very slow, hardly realizing enough to pay for the picking. Lily of the valley is moving fairly well.

Greens are selling slow. Quantity about normal. A few asters are coming in, but not of very good quality, nor in large quantities. Prospects are there will be an abundant supply this summer as growers generally have planted heavily. Petunias for funeral work are selling well, and bringing normal prices.

CUT-FLOWER NOVELTIES IN CHICAGO

Vaughan & Sperry, abundance of lavender and yellow sweet peas. Also fine campanula, double, lavender and purple.

N. C. Moore & Co., dahlia Clifford Burton and Cosmos.

J. A. Budlong, fancy Boston Market carnation.

A. L. Randall Co., Liliun candidum.

E. F. Winterson Co., carnation Harlowe and fancy perennials.

Bentley-Coatsworth Co., water-lilies.

E. H. Hunt, fancy peonies and Kaiserin roses.

E. C. Anling, fine shell-pink sweet peas.

In a communication dealing with the dependence of trade upon the salesman, U. S. Consul Harris at Mannheim, Germany, remarks that in fertility of resource to avoid delays in forwarding merchandise, in fulfilling contracts, setting up machinery, etc., the American salesman has no superior, and that a good salesman would have a moving machine hauled 20 miles at night rather than disappoint a farmer to whom it was promised on a given day.

WANTS

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INVESTMENT WANTED—Hollander, whose business brings him to the States, desires to invest substantial amount not exceeding 30,000 to 40,000 guineas, in first-class horticultural business, where he can be of service in buying Dutch bulbs and other similar products in Europe. Only first-class houses need apply. Address giving general particulars and appointing interview, A. M. J., care of HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—Long experience in outdoor gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Young man to take charge of carnation houses. Must furnish references. Situation will be open September 1st. Address, A., care of HORTICULTURE, 11 Hamilton Place, Boston.

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Extra	25.00 to 30.00	to 16.00	15.00 to 20.00	12.00 to 15.00
No. 1	15.00 to 20.00	10.00 to 12.50	10.00 to 12.50	4.00 to 8.40
Lower grades	2.00 to 6.00	3.00 to 8.00	6.00 to 8.00	.50 to 2.00
Bride & Maid, Fan. & Sp.	5.00 to 6.00	to 10.00	10.00 to 12.00	4.00 to 6.00
Extra	4.00 to 5.00	to 6.00	6.00 to 8.00	2.00 to 3.00
No. 1 and Lower gr.	1.00 to 3.00	3.00 to 5.00	2.00 to 6.00	.50 to 2.00
Liberty, Fancy & Special	10.00 to 12.50	to 12.00	15.00 to 18.00	10.00 to 12.00
extra	8.00 to 10.00	to 6.00	10.00 to 12.00	8.00 to 10.00
No. 1	5.00 to 6.00	4.00 to 5.00	6.00 to 8.00	3.00 to 4.00
Metrol	2.00 to 3.00	to 4.00	to 2.00	to 6.00
Carnot and Katerina	5.00 to 10.00	to 4.00	8.00 to 10.00	4.00 to 10.00
Golden Gate } Best	5.00 to 6.00	to 6.00	8.00 to 10.00	5.00 to 6.00
Ivory } Medium	3.00 to 4.00	1.00 to 5.00	5.00 to 6.00	3.00 to 4.00
Chatenay } Culls	1.00 to 2.00	to 3.00	1.00 to 2.00	1.00 to 2.00
CARNATIONS				
Fancy Class	2.50 to 3.00	to 2.00	1.50 to 2.00	1.60 to 1.50
General Class	.25 to 2.00	1.00 to 1.50	.50 to 1.50	.50 to 1.00
ORCHIDS				
Cattleyas	50.00 to 60.00	to 50.00	50.00 to 60.00	to 50.00
BULBOUS				
Lilies	8.00 to 12.50	to 10.00	to 6.00 to 8.00	to 6.00 to 8.00
Lily of the Valley	3.00 to 4.00	to 3.00 to 4.00	to 3.00 to 4.00	to 3.00 to 4.00
Stocks	to 1.00	to 1.00	to 1.00	to 1.00
Daffodils	to 1.00	to 1.00	to 1.00	to 1.00
Callas	6.00 to 8.00	to 6.00	to 6.00	to 6.00
MISCELLANEOUS				
Mignonette	1.50 to 3.00	to 1.00	to 1.00	2.00 to 2.50
Sweet Peas	.25 to .40	15 to 20	40 to 50	.50 to .50
Adiantum Cuneatum	.25 to .50	to .25 to .50	to .25 to .50	1.00 to 1.00
Crowdium	to 1.00	to 1.00	to 1.00	1.00 to 1.00
Farleyense	to 1.00	to 1.00	to 1.00	to 1.00
Smilax	8.00 to 12.50	to 12.50	12.50 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	25.00 to 35.00	to 25.00	25.00 to 35.00	35.00 to 50.00
bunches	15.00 to 25.00	to 25.00	25.00 to 35.00	35.00 to 50.00
Sprengeri	15.00 to 25.00	25.00 to 35.00	25.00 to 35.00	35.00 to 50.00
Gardenias	to 1.00	to 1.00	to 1.00	to 1.00
Peonies	3.00 to 6.00	to 3.00	to 3.00	to 3.00

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CATALOGUE FREE

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

ROSES

AS A LEADER we offer **UNCLE JOHN**, the Improved Golden Gate, color far superior and better shaped flower, in 3-inch pots at \$2.25; 2-in at \$1.5 per 1000

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy

	100	1000
Uncle John, 3-inch, \$2.00	\$25.00	
Uncle John, 2-inch, 2.00	15.00	
Bridesmaid, 2-inch, 2.50	20.00	

American Beauty (Bench Plants) \$3.00 per 100; \$25.00 per 1000

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Lawson (Pink)	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Boston Market	Crusader	Harry Fern	Triumph	Guardian Angel
	Roosevelt		Mrs. Inc	

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Prices furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in **AT CONDITION**.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and
CARNATIONS
A SPECIALTY....

WHOLESALE
GROWER of

Cut Flowers

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FANCY OR DAGGER FERNS



New Crop, No. 1 stock only 75c. per 1000. Fine quality laurel blossoms, very fine pink shades, 50c. per large bundle. Galax, brilliant bronze or green, 75c. per 1000; \$6.50 per case, 10,000. Laurel festooning, hand made, full sizes, 4c. 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 5c. per large bundle. Southern wild Smilax, 20 lb. cases, \$5.50 per case. Laurel wreaths and made into roping. Tell us your wants and we will name you prices.

CROWL FERN CO.

MILLINGTON, MASS

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

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50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in **PLAIN BOXES, WITH OWN TAGS** in best manner by

Young & Nugent

42 W. 23th Street, New York

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FRED C. WEBER FLORIST

4326-28 OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 676

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters. Block Letters, 14 for 2-inch size per 100; \$2 Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

\$1.25 FERNS \$1.25

THIS IS FOR YOU

We want to supply you with the best Ferns and Cut Flowers this summer

VAUCHAN & SPERRY

Phone Central 2571

60 Wabash Ave., CHICAGO

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Gardenia VEITCHII (TRUE)

All up-to-date Florists are laying in a stock of the above. Choice blooms being always in demand at fancy prices. Extra strong, bushy plants, 4-inch pots, \$6.00 per doz.; \$45.00 per 100. 25 at 100 rate.

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\$1.00 PER 1000 Discount on regular shipments

Michigan Cut Flower Exchange

W.M. DILGER, Manager
WHOLESALE FLORISTS
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Fine Roses**Fancy Carnations**

A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

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Wholesale Commission Florist **SELLING AGENT FOR LARGEST GROWERS**
A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices

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Consignments received, sold well and returns made promptly

33 WEST 30th ST. NEW YORK

Telephone, 286 Madison Sq.

GEORGE A. SUTHERLAND CO.**CUT FLOWERS**

Florists' Supplies and Letters

34 Hawley St. - BOSTON

WM. GHORMLEY

WHOLESALE COMMISSION FLORIST

57 West 28th St., New York

FINEST ROSES ALL VARIETIES

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones { 2200 } Madison
 { 2201 } Square

Write for Current Prices

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NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending June 24 1905	First Half of Week beginning June 26 1905		Last Half of Week ending June 24 1905	First Half of Week beginning June 26 1905
ROSES					
Am. Beauty, fan. and sp.	15.00 to 25.00	15.00 to 25.00			
" extra	8.00 to 12.00	8.00 to 12.00			
" No. 1	5.00 to 8.00	5.00 to 8.00			
" Lower grades	1.00 to 2.00	1.00 to 2.00			
Bride & Maid, fan. and sp.	4.00 to 6.00	4.00 to 6.00			
" extra	5.00 to 7.00	5.00 to 7.00			
" No. 1 and Lower gr.	2.50 to 3.00	2.50 to 3.00			
Liberty, fan. and sp.	10.00 to 15.00	10.00 to 15.00			
" extra	6.00 to 8.00	6.00 to 8.00			
" No. 1	2.00 to 4.00	2.00 to 4.00			
Meteor	1.00 to 2.00	1.00 to 2.00			
Jacq	1.00 to 2.00	1.00 to 2.00			
Brunner	1.00 to 2.00	1.00 to 2.00			
Carrot and Kaiserin	1.00 to 2.00	1.00 to 2.00			
Golden Gate	1.00 to 2.00	1.00 to 2.00			
Ivory	2.00 to 4.00	2.00 to 4.00			
Chatenay	1.00 to 2.00	1.00 to 2.00			
CARNATIONS					
Fancy Class	1.00 to 1.50	1.00 to 1.50			
General Class	.25 to 1.75	.50 to 1.50			
ORCHIDS					
Cattleyas	to	25.00 to 50.00			
Cypripediums	to	to			
BULBOUS					
Lilies	4.00 to 8.00	4.00 to 8.00			
Lily of the Valley	1.00 to 3.00	1.00 to 3.00			
Callas	to	to			
MISCELLANEOUS					
Mignonette	to	to			
Sweet Peas	to	to			
Adiantum Cuneatum	.50 to .75	.50 to .75			
" Croweanum	to	to			
" Fairlyense	to	to			
Smilax	to	to			
Asparagus Plumosus, strings	6.00 to 12.00	6.00 to 12.00			
" bunches	to	to			
" Sprengeri	to	to			
Gardenias	to	to			
filices bunches	to	to			
Peonies	to	to			

Florists Out of Town

Taking orders for delivery in
New York City or Vicinity can
have them filled in best manner
and specially delivered by

Thomas Young, Jr.

41 W. 23th Street - NEW YORK

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ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 35th St.

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Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

**Artistic Designs
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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WEILAND & RISCH

Leading Western Growers and Shippers of

Cut Flowers

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Long Distance Phone Central 879.

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Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

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Long Distance Phone, 1435 Court.

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Bonnot Bros.

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55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square

OPEN 6.00 A. M.

AN UNEQUALLED OUTLET FOR CONSIGNER FLOWERS

The only house
handling the New
Red CarnationTo be disseminated 1906. Also a complete
line of choicest florists.**ALEX. J. GUTTMAN**

WHOLESALE FLORIST

52 WEST 29TH ST. NEW YORK

Telephones 1664-1665 Madison Square.

Edward C. Horan**Wholesale Florist**

55 WEST 28th St.

Tel. 1462 NEW YORK
1463

The RELIABLE HOUSE

JOSEPH S. FENRICH

Wholesale Florist

Consignments Solicited

43 West 30th Street, New York City

Telephone No. 325 Madison Square.

JAMES A. HAMMOND**Wholesale Commission Florist**

113 W. 30th St. NEW YORK CITY

Tel. 854 Madison Sq.

Consignments receive conscientious and prompt

attention. Highest market prices guaranteed.

The finest stock in the market always on hand

A. L. YOUNG & CO.**Wholesale Florists**

Shipping orders supplied with selected Flowers

at reasonable prices. Send for circular.

54 W. 28th St. NEW YORK

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Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Flowers and all Decorative Greens

Agents for CALDWELL'S PARLOR BARD WILD, SMILAX

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American BEAUTIES

AND

QUEEN OF EDGELYS**WELCH BROS.**

City Hall Cut-Flower Market

15 PROVINCE ST., BOSTON

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

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Established 1857

Tel. 167 Madison Sq.

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Always Reliable for FLOWERS

CONSIGNED or ORDERS given

Open 6 A. M. Write for Market Prices on Flowers.

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OUR FLOWERS

We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 23th St. New York City

Telephones, 798-799 Madison Square

Headquarters in Western New York for

**Roses
Carnations**

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist

Also Dealer in Florists' Supplies

and Wire Designs

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GIVE US A TRIAL WE CAN PLEASE YOU

**FANCY CARNATIONS
AND ROSES****Pittsburg Cut Flower Co., Ltd.**

504 Liberty Ave., Pittsburg, Pa.

In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE AND COMMISSION FLORIST

115 West 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI JUNE 27	BALTIMORE JUNE 26	BUFFALO JUNE 27	PITTSBURG JUNE 26
ROSES				
Am. Beauty, fan. and sp.	20.00 to 25.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" extra.	12.50 to 15.00	15.00 to 20.00	15.00 to 20.00	15.00 to 18.00
" No. 1.	10.00 to 12.00	10.00 to 12.00	8.00 to 10.00	6.00 to 10.00
" Low. Grades	6.00 to 8.00	5.00 to 6.00	8.00 to 10.00	2.00 to 4.00
Bride & Maid, fan. and sp.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
" extra.	4.00 to 6.00	5.00 to 6.00	8.00 to 10.00	6.00 to 8.00
" No. 1 and Lower gr.	1.50 to 2.00	2.00 to 4.00	2.00 to 4.00	1.50 to 2.00
Liberty, fan. and sp.	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
" extra.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
" No. 1.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Meteor.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Jacq.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Brunner	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Carnot and Kaiserin	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Golden Gate Best.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Ivory	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Chateaux	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Killarney.	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
CARNATIONS				
Fancy Class.	1.50 to 2.00	1.50 to 2.00	2.50 to 3.00	2.00 to 2.50
General Class.	50 to 1.50	50 to 1.50	75 to 1.50	75 to 2.00
ORCHIDS				
Cattleyas	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Cypripedium	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00
BULBOUS				
Lilies	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Lily of the Valley.	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Stocks.	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Daffodils	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Tulips	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Callas	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
MISCELLANEOUS				
Mignonette	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Sweet Peas	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Adiantum Cuneatum	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
" Crowneum	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
" Farleyense	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Smilax	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Asparagus Plumosus, strings	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
" bunches	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
" Sprengeri	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Gardenias	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
" Pancha	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Panicles	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00

List of Advertisers

Page	Page
Allen J. K. 19	McKellar Charles W. 16
Aschmann G. 4	Michlin Cut Flower Exchange 18
Baker Wm. J. 16	Millang Charles 18
Bambrick Thos. H. 16	Mining Frank 18
Barrows H. H. & Son. 4	Moninger J. C. 22
Baur Floral Co. 5	Murdoch J. B. 19
Bayersdorfer H. & Co. 17	Niessen Leo 16
Boas W. J. & Co. 17	Peacock L. K. 5
Boddington A. T. 17	Pennock Samuel S. 16
Bonnet Bros. 19	Percy Chas. W. 23
Boston Florist Letter Co. 17	Pierman John J. 19
Breck Joseph & Sons 17	Pierman Seton Co. 24
Breitmeyer's J. Sons 6-23	Phila. Cut Flower Co. 16
Budlong J. A. 17	Pittsburg Cut Flower Co. 10
Burpee W. A. & Co. 6	Pittsburgh Rose and Carnation Co. 5
Chandler B. B. & E. J. Chicago House Wrecking Co. 22	Poehlmann Bros. Co. 2
Chicago Carnation Co. 5	Pye R. C. 5
Chucas & Riddington 4	Ransom W. W. & Co. 6
Cooke G. H. 17	Raynor John I. 18
Coolidge Bros. 17	Reid & Keller 18
Cottage Gardens 5	Reid Edward 18
Crowl Fern Co. 17	Reinberg Peter 10
Dilzer Wm. 18	Robinson H. M. & Co. 16
Dreer H. A. 6-23	Rochrs Julius 4
Dysart R. J. 4	Rolker August & Son 5
Elliott Wm. & Son. 5	Safety Automatic Ventilating & Heating Co. 22
Ealer J. G. 22	Sander & Sons 4
Ernest W. H. 22	Schillo Lumber Co. 22
Farquhar R. & J. & Co. 6	Scott John 22
Fenrich J. S. 19	Scott John 4
Fletcher F. Wm. 5	Sharp, Partridge & Co. 22
From Bros. 15	Sheridan W. F. 18
Fromow W. & Sons 5	Siebert & Sons 2
Ghormley W. 18	Siggers E. G. 15
Grey T. J. & Co. 6	Sikelsky S. S. 5
Gurney Heating Mfg. Co. 23	Smith A. D. 15
Guttman Alex. J. 19	Stearns A. T. Lumber Sutherland Geo. A. 18
Hageman Wm & Co. 2	Suzuki & Iida. 18
Hail Asso. 19	Sylvester H. H. 22
Hammond J. A. 19	Situations & Wants. 15
Hatcher J. C. 3	Thorburn J. M. & Co. 16
Herenden Mfg. Co. 23	Tranquid & Schenck 19
Hews A. H. & Co. 22	Vaughan and Sperry 17
Higard E. 19	Vaughan's Seed Store 4-16
Hitchings & Co. 24	Walsh M. H. 19
Horan E. C. 19	Ward J. M. 5
Hunt E. H. 4-16	Ward Ralph M. 6
Johnson Heating Co. 6	Watson, G. C. 5
Johnson & Stokes. 6	Weber, F. C. 17
Kasting W. F. 19	Weller H. & Sons 5
King Construction Co. 23	Welch Bros. 19
Kloknor A. 23	Weiland & Rich. 19
Lager & Hurrell 4	Wietor Bros. 19
Lang Julius 18	Winterich C. 16
Lehach & Vinnich 5	Winterrose F. C. 16
Leuthy A. & Co. 4	Yalaha Conservatories 4
Lord & Burnham Co. 24	Young & Nugent 17
Metropolitan Material Co. 23	Young Thos. Jr. 18
McCarthy N. F. & Co. 16	Young A. L. & Co. 19
McConnell Alex. 18	Zinger & Co. 5

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Robert J. Dysart, 28 State St., Boston
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston
For page see List of Advertisers

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
For page see List of Advertisers

ASPARAGUS SEEDLINGS

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BEGONIA GLOIRE DE LORRAINE.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.

Johnson & St. Ales, 217-219 Market St., Philadelphia.
Forcing Bulbs.

Joseph Breck & Sons, 47-54 N. Market St., Boston
French and Dutch Bulbs.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Plants for Fall delivery
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown, N. Y.

Variegated Lawson, White Lawson, Dahheim, Fiancee
Cardinal, Fred Burks, and Victory.

Robert C. Pye, Nyack, N. Y.

For page see List of Advertisers

J. A. Budlong, 37 & 39 Randolph St., Chicago.

Fred Greenblatt, St. Louis, Mo.

For page see List of Advertisers.

H. Weber & Sons, Oakland, Md.

White Carnation, My Maryland.
For page see List of Advertisers.

CHRYSAETHUMS.

Coolidge Bros., So. Sudbury, Mass.

The F. W. Fletcher Co., Auburndale, Mass.

For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.

For page see List of Advertisers.

Wm. Hageman & Co., 55 Day St., New York.

For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Delancey, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Ato, N. J.

For page see List of Advertisers.

ENGLISH IVY.

The F. W. Fletcher Co., Auburndale, Mass.

For page see List of Advertisers.

FERNES.

A. Leuthy & Co., Rosindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.

Nephrolepis Barrowsii.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Nephrolepis Piersoni Elegantisima
For page see List of Advertisers.

FERTILIZERS.

W. Elliott & Sons, New York.

Peruvian Guano.
For page see List of Advertisers.

E. H. Hunt, 76-78 Wabash Ave., Chicago.
Bone Meal and Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.

For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.

For page see List of Advertisers.

Fred C. Weber, 4329-29 Olive St., St. Louis, Mo.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.

For page see List of Advertisers.

Thos. Young, Jr., 43 W. 28th St., New York.

For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

FOLDING BOXES.

Weich Bros., 15 Province St., Boston.

For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.

For page see List of Advertisers.

GARDENIA VEITCHII.

A. T. Boddington, 342 W. 14th St., New York.

For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22d and Union Place, Chicago.

For page see List of Advertisers.

George C. Watson, 1614 Ludlow St., Phila.

For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer Philadelphia, Pa.

For page see List of Advertisers.

B. B. & E. J. Chandler, Hyde Park, Mass.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.

For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.

For page see List of Advertisers.

Pierson-Seton Co., West Side Ave., Jersey City, N. J.

See outside cover page

Hitchings & Co., 313 Mercer St., New York N. Y.

See outside cover page

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

Safety Auto V. & H. R. Co., Lake George, N. Y.

For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk St., Chicago.

For page see List of Advertisers.

Adam Schillo Lumber Co.

Weed St. and Hawthorne Ave., Chicago, Ill.

For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.

For page see List of Advertisers.

You Need Not Go Outside

THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers and the Best Florists' Supplies in the Country

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

Caldwell, The Woodsman, Evergreen, Ala.

HARDY HERBACEOUS PLANTS.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers

HELP.

Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.
See outside cover page.

Pierson-Selton Co., West Side Ave., Jersey City, N. J.
See outside cover page.

Hitchings & Co., 233 Mercer St., New York.
See outside cover page.

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers

Herenden Mig. Co., Geneva, N. Y.
For page see List of Advertisers.

Gurney Heater Mig. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

HUCKLEBERRY TREE BOUGHS.

Caldwell the Woodsman, Evergreen, Ala.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Hinode Florist Co., 6th St., Woodside, N. Y.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers

LAUREL FLOWERS.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.
For page see List of Advertisers.

LILIES.

Plants and Cut Blooms. Hinode Florist Co., 6th St.
Woodside, N. Y.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York

For page see List of Advertisers

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LILY OF THE VALLEY CROWNS.

Aug. Rhotert, 26 Barclay St., New York.

MASTICA.

Joseph Breck & Son, Boston.
For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St., New York
Pure Culture Spawn.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers

Julius Roehrs, Rutherford, N. J.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

P/ONIES.

E. F. Winterson Co., 45-49 Wabash Ave., Chicago.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

PLANT STAKES.

H. F. Mitchell Co., 1013 Market St., Philadelphia.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breimeyer's Sons, Gratiot & Miami Aves., Detroit
Mich.

Young & Nugent, New York.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

RAFFIA.

Aug. Rhotert, 26 Barclay St., New York.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses. H. T. Roses and Ramblers.

For page see List of Advertisers

August Rolker & Sons, 31 Barclay St., New York.

English-Grown Roses.

For page see List of Advertisers.

Rose Killarney, Siebrecht & Son, New Rochelle, N. Y.

For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.

Young Roses.

For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.

For page see List of Advertisers.

J. M. Ward & Co., Peabody, Mass.

Grafted Stock.

For page see List of Advertisers.

Pittsburg Rose & Carnation Co., Gibsonia, Pa.

Young Stock.

For page see List of Advertisers.

F. E. Palmer, 220 Washington St., Brookline, Mass.

Crimson Rambler Roses in Pots.

SALVIA.

F. E. Palmer, 220 Washington St., Brookline, Mass.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.

For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq
Boston.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston

For page see List of Advertisers.

Joseph Breck & Sons

51 & 52 N. Market St., Boston

For page see List of Advertisers.

W. Allee Burpee & Co., Philadelphia

For page see List of Advertisers

J. M. Thorburn & Co.,

36 Cortlandt St., New York.

For page see List of Advertisers.

Jose Sagaminara, Obispo 66, Habana, Cuba.

Tobacco Seed of Cuba.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.

Hardy Perennial Flower Seeds.

For page see List of Advertisers.

Aug. Rhotert, 26 Barclay St., New York.

Tree Seeds.

Conrad Appel, Darmstadt, Germany. Estab.
1780. High Grade Grass, Clover, and Tree Seeds.

SPRAYING ENGINES

Chas. W. Percy, 212 Summer St., Boston.

For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Hitchings & Co., 233 Mercer St., New York
See outside cover page

Pierson-Selton Co., West Side Ave., Jersey City, N. J.

See outside cover page

Lord & Burnham Co., Irvington-on-Hudson, N. Y.

See outside cover page

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N.Y.

For page see List of Advertisers.

The Chicago Lifter.

I. C. Muninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

George A. Sutherland Co., 34 Hawley St., Boston.

Weich Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.

J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

L. A. Randall Co., 21 Randolph St., Chicago.

Weiland & Kisch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago.

New York.

For page see List of Advertisers.

J. K. Allen, 105 W. 28th St., New York.

Bonnot Bros., 55-57 West 26th St., New York.

Jos. S. Fenrich, 45 West 30th St., New York.

Ford Bros., 48 West 28th St., New York.

Wm. Ghorneley, 57 W. 28th St., New York.

Alex. J. Guttman, 52 West 29th St.

Isa. A. Hammond, 113 West 30th St., New York.

E. C. Horan, 55 West 28th St., New York.

Julius Lang, 53 West 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New York.

John J. Perkins, 115 West 30th St., New York.

John I. Raynor, 49 West 28th St., New York.

W. F. Sheridan, 39 West 28th St., New York.

Trenardy & Schenck, 44 W. 28th St., New York.

A. L. Young & Co., 54 West 28th St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.

Lee Nissen Co., 121 Arch St., Philadelphia, Pa.

S. S. Penneck, 1612-18 Ludlow St., Philadelphia, Pa.

Ed. Reid Flower Co., 1516-18 Sansom St., Phila., Pa.

Phila. Reid, 1526 Ransford St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

CARNATION HANNAH HOBART.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.

For page see List of Advertisers

CATTLEYA SCROEDERAE.

Hager & Hurrell, Summit, N. J.

For page see List of Advertisers

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.

For page see List of Advertisers.

CYCLAMEN GIGANTEUM.

Lohm & Winfield, Hackensack, N. J.

For page see List of Advertisers

FANCY FERNS.

Mitchell Cut Flower Co., 18 & 45 Mutual Ave.

Detroit, Mich.

For page see List of Advertisers.

FERNES.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

For page see List of Advertisers.

GIANT PANSY SEEDS.

Johnson & Stokes, 217-19 Market St., Philadelphia

For page see List of Advertisers.

HEATING APPARATUS.

Johnston Heating Co., St. James Bldg., New York.

For page see List of Advertisers.

ROSES, ASPARAGUS PLUMOSI.

John C. Hatcher, Anneton, N. Y.

For page see List of Advertisers.

ROSES.

Baird Floral Co., Inc., Pa.

For page see List of Advertisers

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Tenth St., New York

For page see List of Advertisers

ZIRNIEDEL GIANT PANSIES.

James Zirniedel, North n. Mo.

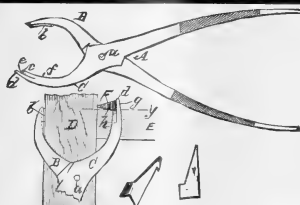
For page see List of Advertisers.

CYPRESS WRITE FOR CATALOGUE.



JOHN C. MONINGER & Co. 412 to 422 HAWTHORNE AV. (CHICAGO).

In writing to advertisers kindly mention HORTICULTURE



THE OLD RELIABLE
Chandler Glazing
Point and Pincers

Roofs glazed eighteen years ago are still intact.
Don't glaze until you write for samples and particulars.
300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER
HYDE PARK, MASS.

H. H. SYLVESTER

Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work a Specialty

In writing to advertisers, mention HORTICULTURE

INSURE YOUR GLASS

in the FLORENCE HALL ASSOCIATION OF AMERICA.
DO IT NOW

'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

Automatic Greenhouse VENTILATORS

From \$25.00 up. Send for circular
The Safety Automatic Ventilator and Heat
Regulator Co., Lake George, N. Y.



In writing to advertisers, mention HORTICULTURE

HEATING APPARATUS

Installed in any part of the country or Material furnished
with plans. Specify the Boiler you want.

Johnston Heating Co.
St. James Building
1133 B'WAY NEW YORK

In writing to advertisers, mention HORTICULTURE

SALE OF BOILER TUBES

Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhouse-men and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3/8 inch to 14 inch.

Boiler Tubes, sizes from 1 3/4 to 8 inch.
50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

Lumber, Garden Hose, Etc.
ASK FOR OUR CATALOGUE NO. 554

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., Chicago

In writing to advertisers, mention HORTICULTURE

CYPRESS SASH BARS

32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

Standard POTS

Flower...

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....
W. H. ERNEST
28th and M Streets, WASHINGTON, D. C.

In writing to advertisers, mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring,
White Cedar Posts, Etc.

We are in a Special "Pecky Cypress"
Position to Furnish
Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES

Adam Schillo Lumber Co.
Cor. Weed St. & Hawthorne, CHICAGO
Tel. North 1626 and 1627

In writing to advertisers, kindly mention HORTICULTURE

GLASS

FACTORIES ARE NOW CLOSED
for the season. Our stock is complete
WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.
22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

Furman Boilers for Greenhouse Heating



Valuable Catalogue on Modern Steam and Hot Water Heating, mailed free upon request. Address

The Herenden Manufacturing Company

Dept. H. T. Geneva, N. Y.

39 Cortlandt St., NEW YORK

39 Oliver St., BOSTON

In writing to advertisers, kindly mention HORTICULTURE

FURMAN BOILERS have been awarded Certificate of Merit at 11st. Shitment Florists' Conventions. They have a record of 20 years. Over 25,000 in use.

Selling Agents

EDW. S. DEAN, Bloomington, Ill.

JAS. SPEAR, S. S. H. 179, 1014 Market St., Philadelphia, Pa.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs.

BOILERS Second-hand steam, \$15.00. 1 No. 17

Hitchings, \$75.00.

PIPE New 2-in. full lengths, 8 1/2 cts. per ft. Good,

serviceable second-hand, with threads 2-in.,

7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 4 1/2 cts.; 1-in., 3 cts.;

7/8-in., 10 cts.; 3/4-in., 14 cts.; 2-in., 19 cts.; cast iron,

1-in., 12 cts.

STOCKS and DIES New No. 4 Threads, 1/2-in.,

1/4-in., 1-in., 2-in. pipe, \$3.00.

No. 2 Threads, 1 1/2-in., 1 1/4-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New, cuts 1-in. to 2-in., pipe,

\$1.00; cuts 1-in. to 2-in., pipe,

\$1.10.

STILLSON WRENCHES New 18-in., grips 3/4-

1-in. to 2-in., pipe, \$1.05;

24-in., grips 3/4-in. to 2 1/2-in., pipe, \$1.40;

30-in., grips 1/2-in. to 3 1/2-in., pipe, \$2.75.

PIPE VISES New, Hinged, grips 1-in. to 2-in.,

pipe, \$2.00.

GARDEN HOSE New, 1/2-in., guaranteed 100-

lbs. pressure, 7 1/2 cts. per ft. 1/4-

in. not guaranteed, 4 1/2 cts. per ft.

HOTBED SASH New, Cypress, 3 ft. x 6 ft., from

\$1.00 up. Second-hand, as good as new, at \$1.25

and \$1.00 each, complete.

GLASS New, American, 50 sq. ft. to the box:

Single, 10 x 12, at \$1.70; old 10 x 12 single

\$1.40. B. Double, 10 x 12 and 12 x 12, at \$2.40. B.

Double, 12 x 14, 14 x 16, 16 x 16 at \$2.60; B. Double,

16 x 20 \$2.80; 16 x 24 at \$2.95 a box.

RADIATORS Steam, as good as new.

WRITE for our price on Gulf Cypress Building

Material, Ventilating Apparatus, Oil,

White Lead, Putty, Paints, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N.Y.

In writing advertisers, mention HORTICULTURE

SEND FOR

New Green House Catalogue

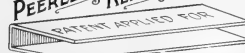
JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

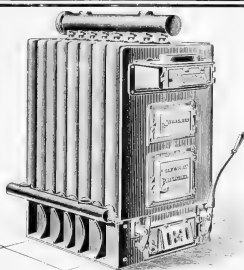
THE PEERLESS REPAIR CLAMP



To mend cracked Glass immediately. Box of 150 \$1.00 for sale by Jobber or address A. KLOKNER, Waawata, Wis. Testimonials and samples free.



THE SHIPMAN OIL BURNING AUTOMATIC STEAM PUMPING OUTFIT. Can you afford to run your greenhouses without it? For illustrated catalogue and further information, write to Chas. W. Percy, Manufacturer Shipman Automatic Engines, 212 Summer Street, Boston, Mass.



Scollay Invincible Boilers

—FOR—

Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

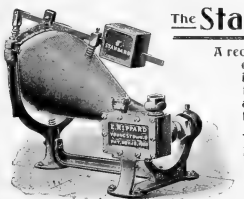
Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices



The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return

—Testimonials if desired—

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

—Send for Catalogue—

E. Hippard, Youngstown, Ohio

MASTICA FOR Greenhouse Glazing



We are the Manufacturers Distributing Agents for Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION

47-54 North Market Street
Boston Mass.

In writing to advertisers, mention HORTICULTURE

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATING CO. FACTURING CO.

NEW YORK OFFICE: 111 FIFTH AVE.

74 FRANKLIN ST. BOSTON.

THE PIERSON-SEFTON Co.
Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

WE MANUFACTURE and ERECT
EVERY TYPE OF
GREENHOUSE

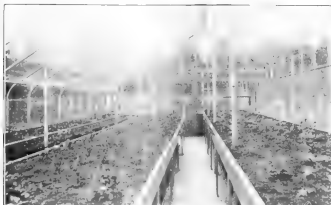
The GALVANIZED "U" BAR TYPE
The FLAT IRON RAFTER TYPE
The SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type.
Wood and iron frame benches and tables.
Hot-bed sash and frames.
Special hand-made Greenhouse Putty.
Pipe, Fittings, Valves and everything for Greenhouse Heating.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.

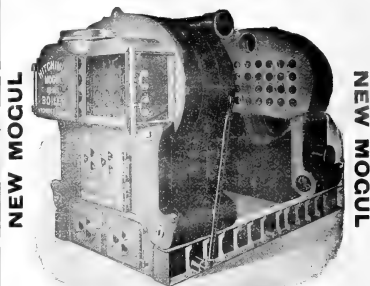


Interior view of "U" Bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

In writing to advertisers, mention HORTICULTURE

**HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING**

ESTABLISHED 1844



**FOR HOT WATER or STEAM
HITCHINGS & CO.**

NEW YORK
233 Mercer Street

BOSTON
319 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention HORTICULTURE



Designed and erected for Judge W. H. Moore, Prides Crossing, Mass.

**Greenhouses, Conservatories,
Rose Houses, Graperies, etc.**

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

New York Office . . . St. James Bldg., Broadway and 26th St.
General Office & Works . . . Irvington-on-Hudson, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

HORTICULTURE

Vol. II

JULY 8, 1905

No. 2



LÆLIA-PURPURATA
Julius Roehrs Co.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

HYDRANGEAS FOR SUMMER BLOOMING

We grow these largely, and have a magnificent stock of large-sized plants in tubs and barrels. Plants are now covered with buds and are just beginning to show color, and will be in full bloom during July and August. These plants are splendid for decoration of the lawn, and are used largely at seaside places and other summer resorts. There is nothing that equals them for summer decoration during July and August.

Fine Plants in tubs, \$2.00 and \$3.00 each according to size.

Very large specimens in half-barrels, \$7.50 each.

These plants can be shipped by freight with perfect safety to any point. We ship large quantities every year as far north as Bar Harbor, Maine.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

In writing to advertisers, kindly mention HORTICULTURE

KILLARNEY

The best paying forcing Rose ever grown.
2000, 2 1/4-inch Grafted Stock

\$20.00 per 100; \$175.00 per 1000; 500 at
Thousand Rate

This is the Last Offer this Season

Siebrecht & Son

Rose Hill Nurseries

New Rochelle, N.Y.

In writing to advertisers, kindly mention HORTICULTURE

ROSES

	2 1/2 inch		3 1/2 inch	
	Per 100	Per 1000	Per 100	Per 1000
Am. Beauties.....	\$5.00	\$45.00	\$7.00	\$65.00
Chateaux.....	4.00	30.00	5.00	45.00
Cecile John.....	4.00	35.00	5.00	45.00
Golden Gates.....	2.50	20.00	3.50	40.00
Maids.....	3.50	30.00	5.00	45.00
Brides.....			5.00	
Sunrise.....			5.00	

	Per 100	Per 1000	2 1/2 in	Per 100	Per 1000
Stevia H. Co.	\$1.50	\$12.50	\$2.50	\$22.50	

POEHLMANN BROS. CO., Morton Grove, Ill.

In writing to advertisers, kindly mention HORTICULTURE

\$1.25 FERNS \$1.25

We are handling from 20,000 to 30,000 SWEET PEAS each day. No order too large for us to fill.

VAUGHAN & SPERRY

PHONE CENTRAL 2571

60 Wabash Ave., CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

Gardenia VEITCHII (TRUE)

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The grand Prize Winner in competition with the latest and very best products in Carnations, East or West, for the last eight years.

Mr. John V. Palmer, of the Elm, Washington, wrote, after his visit to our nurseries in January, 1902, an article which appeared in the AMERICAN FLORIST of February 15, as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different. In this respect it most resembles the old Jubilee, but of course the color is different. I saw two large bushes of it at Sievers', and the sight is one long to be remembered; hundreds of blooms and not a poor one in the lot, and everyone the exact counterpart of the other, no-budded calyxes, but every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and if needing verification, the simple assertion that the flowers of this magnificent variety have been sold wholesale as high as \$1.00 per dozen, and none less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

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HORTICULTURE

VOL. II

JULY 3, 1905

NO. 2

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONT-PIECE <i>Lalia purpurata</i>		THE USES OF HARDY SHRUBS FOR FORCING	
VANDAS IN TOKIO — Illustrated — John C. Siegfried	31	— Edwin Matthews	45
CHRYSANTHEMUM DISEASES — R. L. Adams	31	GRADUATING CLASS IN FLORICULTURE —	
CHOICE ARALIAS — Edgar Elvin	32	Illustrated	41
BRITISH HORTICULTURE — W. H. Adams	33	SEED TRADE TOPICS	42
EDITORIAL	34	GREENHOUSES BUILDING AND PROJECTED	42
HORTICULTURAL SOCIETIES — David McIntosh	35	CUT FLOWER MARKET REPORTS	
IN CONFIDENCE	35	Baltimore, Boston, Buffalo, Chicago, Cincinnati,	
NEWS OF THE CLUBS AND SOCIETIES		Louisville, New York, Philadelphia	43
American Association of Park Superintendents	36	MISCELLANEOUS	
President elect Theodore Wuth — Portrait	36	Tree Protection in Cleveland	35
Newport Horticultural Society	37	Plymouth, through a Gardener's Eyes — W. Swan	35
New York Florists' Club Outing	37	Personal	35
Canadian Horticultural Association	38	Baltimore Gleanings — G. C. Watson	40
Society of American Florists	38	Old Colony Cutting — G. H. Higgins	41
Chicago Florists' Club	38	Destroying Plant Lice	41
Pittsburg and Allegheny Florists' and Gardeners' Club	38	San Francisco Notes	42
Tarrytown Horticultural Society	38	Catalogues Received	42
New London County Horticultural Society	38	List of Patent	42
Gardeners' and Florists' Club of Boston	38	Business Changes	43
ROSES — M. H. Walsh	39	News Notes	43
		Philadelphia Notes	45
		Chicago Notes	45
		Baltimore Locals	45

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BRIDESMAID
IVORY
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200 Bridesmaids, 3 inch pots	Per 100	\$4.00
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ONARCA, ILL.

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Chicago Carnation Co.

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Our Plants are Now in the Field

Write us for Fall Delivery.

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824 No. 24th St.
PHILADELPHIA

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INCORPORATED

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Carnations

W. WARD, President, 114 GARDING, N. Y. and Texas
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You Need Not Go Outside the Pages

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Seeds of Hardy Perennial Flowers

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LILIAM LONGIFLOREM
ROMAN HYACINTHS
Paper WHITE NARCISSUS, etc.

Wholesale Price-List now Ready

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J. M. THORBURN & CO.
36 Cortlandt St., New York.

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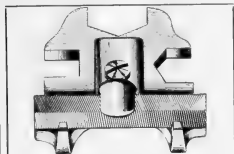
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PHILADELPHIA

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do it. Entirely new and away ahead of any similar device on the market. Has eight cutting surfaces that can be used in succession. Made of the highest grade crucible steel. Will last a life-time. Try it.

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OUR KINGLY COLLECTION OF GIANT PANSIES

Half Trade Packet 1000 seeds	25c
Trade Packet 3000 seeds	50c
3000 seeds	\$1.00
Per ounce	\$1.00

What Our Customers Say

I know you have the finest Pansies, because I had them before and beat everyone in Colorado with your strains.

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Our complete Pansy List mailed on request.

JOHNSON & STOKES

217-219 Market St., PHILADELPHIA, PA.

NEW CROP PANSY SEED

Michell's Giant Prize

Our Giant Prize Pansies are not to be compared with the ordinary Giant Trimardeau. The seed we offer will produce flowers of much heavier texture.

Michell's Giant Exhibition Mixed. A strain which we have secured from the leading Pansy Specialists in Germany and France, and cannot be excelled in size, texture and brilliant colors. Price per trade packet, 50c; per 1000, \$5.00; per oz., \$5.00. Trade pkt. 50c.

Giant Azure Blue	40c	\$2.00
Giant Black Blue	40c	2.00
Giant Hortensia Red	40c	2.00
Giant Snow Queen	40c	2.00
Giant White, with Eye	40c	2.00
Giant Yellow, with Eye	40c	2.00

For complete list of Pansy and other seasonal seeds see our New Wholesale List. Send for a copy.

HENRY F. MICHELL CO.

Seed Growers and Importers
1015 Market St., Philadelphia, Pa.

Are You To Build? Going...

I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted.

Address:

George C. Watson

1614 LUDLOW STREET Philadelphia, Penn.

*Remember this factory is NOT in the TRUST and has a free foot.

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FIRST QUALITY FRENCH and DUTCH

BULBS

Fall Bulb Price List on request

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Seeds, Florists' Supplies, and Agricultural Hardware
42-54 No. Market St. BOSTON, MASS

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THOS. J. GREY & CO.

AGRICULTURAL IMPLEMENTS

..SEEDS..

Farm, Garden and Lawn Supplies

We carry in stock Duplicate Paris

Leading Machinery

33 So. MARKET ST., BOSTON

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Vandas in Tokio

Referring to the issue of your No. 28 "Vandas in Chicago" I thought it might interest the readers of *HORTICULTURE* to learn something about vandas in Tokio, more so as the name of the owner is mentioned so frequently in our public prints.

Having had occasion to visit Japan quite frequently, I became well acquainted with Count Okuma, who, at his residence at Waseda, Tokio, has a handsome collection of orchids well housed. In fact, besides his growing-houses he has a beautiful conservatory where he is always pleased to show his friends or visitors whatever there is in bloom. While again visiting him in July last, I found in flower a *Vanda Sanderiana* of the *Fröbeliana* type which is darker in coloring than the ordinary *Sanderiana*. This plant—full five feet in height—had two flower spikes, one with eleven and the other with thirteen flowers, each flower measuring full four inches; it was a grand sight and I requested Count Okuma to send me a photograph of same, which only recently came to hand accompanied by some plants of the same variety and which now have been placed with my collection of *Vanda Sanderiana* in the *Phalaenopsis* house at Alameda, Cal., where they are doing well.

At Waseda, the collection of orchids is quite large, but besides these the count has numerous other plants that are most interesting. While he is a very busy man, I always found whenever I visited him he had plenty of time to spare to have an interesting conversation about plants and matters in general.

The accompanying photograph will not quite give



an exact idea of the height of the plant, as fully two feet of the stem extending below the aerial roots as shown, is not visible.

JOHN C. SIEGFRIED.

Alameda, Cal.

Chrysanthemum Diseases

1. RUST. (*PUCCINIA CHRYSANTHEMI*)

Typical rusts have three stages which follow one another in succession during the spring, summer, and fall. The uredo stage appears to be the only one infesting the chrysanthemum. This comes in the summer, attacking the leaves and shows as brown, blister-like spots from which a powder is given off. This powder is the spores (seeds) which propagate the disease. They are short-lived, lasting only about a fortnight, the disease passing the winter on infested leaves. The rust is of recent introduction, appearing first in 1896 when it was probably imported on Japanese stock, but it is spreading.

Treatment. Spraying with Bordeaux mixture, or Sulphide of Potassium, one ounce to two gallons of water, applied every two weeks, will check the disease, but hand picking the diseased leaves every day and burning them is better. At the end of the season, destroy all parts of the plants above ground if the fungus has not been stamped out.

New stock should be examined when purchased, and kept by itself for a month in case the disease appears.

Give the plants plenty of light and keep water off the leaves.

2. MILDEW. (AN *ERYSIPHEE* ?)

The chrysanthemum is also liable to the attacks of a white mildew. This fungus attacks the upper sides of the leaves but in severe cases will spread to the lower. In extreme cases the leaf looks as if it were dusted over with flour, but in slight attacks it appears as irregular spots, the threads of the fungus being plainly seen with the naked eye. The appearance is decidedly woolly, due to the immense numbers of spores.

All mildews have two stages (1) the summer, and (2) the winter stage. In the greenhouse we have only the first stage, as a rule, although the second may develop, when it can be recognized by the small, black spots in the white mycelium.

Treatment. Plants grown entirely in the greenhouse are not likely to have the disease, as it is contracted in the field. Good cultural conditions, and plenty of light and air will check the trouble. If the fungus is very bad, dust the plants with flowers of sulphur, or evaporate it by painting it on the pipes.

3. ANTHRACNOSE. (CYLINDROSPORIUM CHRYSANTHEMI)

In this disease large, brownish black blotches appear on the leaves, variable in size — one-fourth to two inches in diameter — shape, and position. The spots embrace both sides of the leaves, sapping them and causing them to turn yellow.

Treatment. Spray with Bordeaux, or ammoniacal solution of Copper Carbonate. Pick and burn all blighted leaves.

Take cuttings from healthy stock.

4. LEAF SPOTS

In *Septoria Chrysanthemi* the disease appears as small brown spots which rapidly increase in size until the leaf tissue dies and the foliage drops off. In badly diseased plants nearly all the leaves wither and fall away.

A new leaf-spot (*phyllosticta*) is reported which causes circular spots with a purplish border.

Treatment. Same as for Anthracnose.

R. L. Adams.

Choice Aralias

In Great Britain these fine table and decorative plants are much favored and largely grown. They suggest themselves as having an equally good future on this continent. For daintiness, modest grace, and general adaptability to any scheme of table work, the small-leaved varieties are hard to beat, while the medium or larger specimens of all varieties are invaluable as outstanding plants in mixed groupings, or as single subjects for conservatory or entrance hall. But in all cases the plants must be symmetrical; to secure this they require delicate handling, and a few varieties need special individual treatment both in regard to cultivation and propagation.

A. filicifolia is a beautiful fresh green variety, and from small cuttings makes a neat plant. Its tendency to rankness of growth quickly spoils it for table, but as it roots freely, a good supply may always be had in readiness. It has a preference for a cold bottom stage in a warm house. *A. Chabrierii* is not of much service for table, but as a medium specimen is a distinct looking plant and wears well. Tops only of this variety should be taken as cuttings; side slips never make perfect plants. *A. elegantissima* is a general favorite; its deep colored serrated foliage shows up finely on a light setting. As dainty dot plants, *A. Veitchii gracillima*, and the new *Handsworthensis* are ideal in small pots. These three do best grafted on *A. reticulata* either as tops or if great quantities are in demand as single eyes, which make nice plants in about eighteen months. When healed off the tops of *reticulata* may be struck again for stock.

A. leptophylla, *A. Kerchoviana*, and *A. regina*, as distinct from the others mentioned, will stand cooler treatment. They root fairly well, but are best grafted, using *A. Guilfoylei* as stock for which these varieties have a special affinity. *A. pulchra* is a large foliage variety often seen in a neglected condition in cool conservatories or botanic gardens, but is really a grand plant when grown freely and kept straight. As a change or combined with the usual

palms for decorative work on a large scale, it has a fine effect, its fresh, glossy leaves show up splendidly under electric light.

Old long-stemmed plants, stripped and laid down in a moist corner, produce quantities of nice cuttings which root freely. *Aralias* should constantly be turned round and though they like a light position, a rather heavy shade (not permanent) is necessary on hot days; this is especially true of *elegantissima*. They should never suffer check either of sudden changes in temperature or ruthless disturbance of the roots in potting. A careful watering also should be the rule especially in winter. Good turfy loam with one-third leaf mold suits most varieties, but the *elegantissima* section favor a lighter soil; leaf mould and peat in equal proportions with loam one-third. Where quantities are grown separate houses are an advantage. They usually command a ready sale at a paying price. In any case it is very handy to keep a few of these most graceful subjects for choice table, decorative, or exhibition effects.

Edgar Elvire

Thanks to HORTICULTURE, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico, and Cuba, which goes far to prove the value of HORTICULTURE as an advertising medium. We are very pleased with the results of our advertising in HORTICULTURE, and wish every success to the paper and editor.

Respectfully,

A. LEUTHY & Co.



British Horticulture

A FAMOUS TRAVELER

Horticulturists have lately extended a hearty welcome home to Mr. E. H. Wilson, who has returned from a second visit to China, where for five years he has been traveling and exploring in the interests of Messrs. Veitch and Sons, of Chelsea. As evidence of his boundless activity, during that period he collected and introduced about 5,000 species. Included are attractive new ornamental vines, rubus, jasmines, clematis, maples, oaks, hornbeams, etc. Amongst Mr. Wilson's "find" were two fine poppies, *Meconopsis integrifolia*, with yellow blooms, and *M. puniceus*, with crimson tinted flowers. These have lately received awards from the Royal Horticultural Society. The British gardens will be enriched by many of the interesting specimens brought from the Celestial Empire by Mr. Wilson, who has once more rendered a sterling service to horticulture. In recent years a great deal has been accomplished in unearthing the floral treasures of the East, due to the efforts of Dr. Augustine Henry, Messrs. Moriss, Wilson, and others. Dr. Henry was employed by the Chinese Customs Department, and he was able to send home large quantities of dried specimens to Kew Gardens, besides diffusing knowledge as to the flora of central China, and the mountainous country surrounding Thibet.

HARDY PLANT CULTURE

In recent years, increased attention has been paid to the culture of hardy plants and alpine, and at all the shows of the Royal Horticultural Society this branch is well represented. Thirty years ago when Mr. Amos Perry, of Winchmore Hill, took a collection of hardy flowers to the old Horticultural Gardens at South Kensington, he was very coldly received, and as a favor was granted a place amongst the sundries in the western arcade. In the change of attitude which has set in, Mr. Perry by his energy and persistency has been a substantial contributor. He has shown what can be done in the improvement of this large section of plants, whilst he has introduced many useful alpine from the Pyrenees, amongst them being *Heuchera sanguinea*. Amongst the varied collection at Winchmore Hill are to be seen all the new hybrid varieties of water lilies, both American and European. Plants are sent to all parts of Europe, including several of the royal gardens, and to America, Canada, Australia, etc. Mr. Perry has secured a big list of awards, including a silver medal at the St. Louis exhibition. His latest honor is a certificate from the Royal Horticultural Society for *Phlox canadensis* (Perry's var.), a very useful border plant, this being included in the Temple show last week.

FLORAL WEALTH

A feature of the great show at the Temple gardens was the valuable collection of orchids staged. The collection shown by Messrs. Sander, of St. Albans,

was stated to be worth £10,000. The firm sold for £1,000 *Cattleya Schroderae*, The Baron, named after Baron Schroder, a noted orchidist. During the show week, Messrs. Protheroe and Morris conducted an auction sale of a selection of orchids from Messrs. Sander's unique collection, and this attracted considerable notice. There was a keen competition amongst leading experts. A record was made by *Odontoglossum crispum* Roger Sander, which was sold for 875 guineas, this being the highest price ever attained by a single plant at an auction. *O. c. Mundyana* was sold for 230 guineas, *O. c. Princess Helena* 190 guineas, *O. c. Franz Masereel* 200 guineas, and *O. c. Queen Victoria* 100 guineas. In the other sections the prices realized were equally satisfactory, showing that the orchid cult is still a very expensive hobby. The total obtained from the sale was over £3,500. The chief buyers comprised Messrs. E. Rogerson, J. Leemann, N. C. Cookson, Briggs-Bury, W. Thompson, and H. T. Pitt. This week the same auctioneers have been disposing of the Stand Hall collection of orchids at Whitefield, near Manchester.

"HOLLAND IN IRELAND"

The capabilities of Ireland as a successful center for bulb culture have been demonstrated in recent years, and many of the nurserymen are now formidable rivals to the Dutch growers. Messrs. Hogg and Robertson, of Dublin, are carrying on an extensive business in this branch. At Rush they have 32 acres under cultivation, and their bulb farm at this place was recently visited by the Dublin Seed and Nursery Employee's Association, who were able to see the May flowering and Darwin tulips in all their brilliancy. The farm lies practically on the seashore, the soil being of a light, sandy character. Hedges have been provided in each of the fields to protect the bulbs from the cold winds. The land is deep and easily worked in almost all climatic conditions. Moisture is supplied from below in a similar manner to the bulb gardens in Holland and Belgium. The strip of land is stated to have the lowest rainfall in Ireland, for which the subterranean moisture makes amends. A visitor describing his inspection of the farm sometime ago stated: "I never even in Holland saw foliage so clean, strong, and healthy, nor flowers so fresh and splendid in form and color. Now that the fact is accomplished, one wonders why bulb-culture was not tried here long ago."

W. H. Adsett.

London, Eng., Jan. 1, 1905.

We hope our readers will, as far as possible, buy everything they need from HORTICULTURE'S advertisers.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE
**FLORIST, PLANTSMAN, LANDSCAPE
 GARDENER AND KINDRED
 INTERESTS**

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The Glorious Fourth was something more this year, the holiday extending in many mercantile establishments from Saturday noon until Wednesday morning, and *HORTICULTURE* was obliged to hustle in order to appear on time. But "courage mounteth with occasion," so here we are — on time.

With the first week of July the commercial end of the florists' business reaches its lowest level, and for a period there is but little for one to do except to take advantage of the respite and let every one have a holiday. Its rarity in the florists' life enhances its enjoyment.

"If all the year were playing holidays,
 To sport would be as tedious as to work."

The many public exhibitions during the month of June, especially in New England communities, evince a healthy horticultural activity and are a good indication of the growing interest in the products of the garden. It is well for every one identified in any way with the horticultural profession to promote and encourage these local exhibitions in every possible way. It means more demand for his products and better business, and is a big advance in the process of transferring his specialties from the luxury to the necessity list.

The Supreme Court has decided that the enactments and rules whereby the Metropolitan Park Commission has exercised control over signboards adjacent to parks and parkways, are unconstitutional in that they deprive property owners, without compensation, of their right to such profit as ownership of the land may bring in to them. It is to be regretted that an effective method has not yet been found for the regulation of the signboard business which has, in recent years, grown to the proportions of an aggravated nuisance. A stiff revenue tax on

all such disfigurements having a surface area beyond a specified limit, has been suggested as a possible solution of the problem.

The recognition given the products of Massachusetts' rosarian, M. H. Walsh, at the exhibitions in Great Britain, is very gratifying to American rose lovers, and should do much toward developing and encouraging effort on practical lines which promise much for the future of American rose creating. Mention has often been made of the many years of patient persistent work the rose hybridizer must give before he can look for results. Mr. Walsh has given a lifetime to it and has well earned all the glory and profit that can possibly come to him now. We have known him all these years and can testify that he has Dean Hole's pre-requisite — "roses in his heart," and this is the foundation of his perseverance and final success.

Under the title of "A Tree Garden to last a Thousand Years," the *Country Calendar* for July publishes an illustrated article describing the beauty and the usefulness of Boston's unique tree garden — the Arnold Arboretum. Much has been written by others on this subject, but nothing so concise, comprehensive and altogether appropriate has hitherto met our eye. And especially is this true of the unqualified credit given Professor C. S. Sargent whose great foresight, courage, and steadfast devotion has counted for so much in the securing to the American people for all time this inestimable sylvan treasury. The appeal now made for an endowment sufficient to carry on and extend the work so nobly begun, should receive a prompt and substantial response.

The visit of the American Association of Park Superintendents to Buffalo appears to have been, like all the preceding visits in the history of this much-alive organization, full of inspiration and instruction for all who were so fortunate as to participate. At such times the gain is by no means all on the side of the visitors. The coming of a body composed of the leading exponents of this most ennobling art, to any community, confers a distinct and lasting benefit, arousing the people to a better appreciation of what nature has given them in outdoor beauty, awakening civic pride and impressing public officials with the paramount importance of park development. It is on the line of the work of these men that American horticulture must make its best advancement. The spirit and form of the home-gardens of the future will be in harmony with the great education now going on, and the park superintendents appear to be on the right road to make the best use of their opportunities and responsibilities.

HORTICULTURAL SOCIETIES

The progress of horticulture in the United States during the last twenty years has been phenomenal and a great deal of that progress can be traced to the agency of horticultural societies. Therefore, it may not be out of place at the present time, when these societies situated in all parts of the country are claiming an unusual amount of attention, to throw a little more light on what they have done in case the dazzling brilliancy of the horticultural world now may blind the vision of some to the source of much of this brightness.

In the trade, of course, the Society of American Florists is the name to conjure with, and those engaged in the trade owe a debt of lasting gratitude to those who first formed that organization. This society has been the means of elevating the business in which its many members are engaged, until to-day it is carried on according to the highest standards of commercial enterprises, comprising in its entirety many of the most energetic and successful men in the country, not a few of whom affirm that much of their success was due to the mutual advantages of membership in the Society of American Florists.

Although perhaps from a commercial point of view the societies including in their membership only those engaged in the trade may have the strongest claim for the performance of the greater of the gigantic work that has been accomplished, nevertheless societies composed for the most part of gardeners and employers of gardeners, have contributed in a large measure to the force that brought horticulture to its present standing, and one in particular—the Massachusetts Horticultural Society—has of late years been seen a potent influence for the advancement of gardening and gardeners, and we are safe in saying that hundreds of similar societies that have sprung up and since flourished, owe their existence to the name and achievements of the Massachusetts Society, having from the beginning on its roll of membership men and women of wealth and culture, who saw no better way of spending a large portion of their income than by encouraging the growing of flowers and plants and surrounding themselves with the beauties of nature developed by the hands of skillful men well paid by those employing them.

Those pioneers of horticulture in Massachusetts happily did not rest contented with all they could do in their own day, but many of them made generous provision whereby the good work they inaugurated still goes on, together with the reminder that although gone, they are still back of it. This was made possible by many legacies left to this society from which prizes are given yearly and oftener, for objects nearest to the minds of those noble persons who made this old New England Society known throughout the world.

The value of many species of plants was brought to light and thence into general cultivation through their exhibition at society shows. Many a gardener has been spurred on to the attainment of excellence in plant culture through the friendly rivalry and not solely for the sake of exhibition awards. Many more gardeners are indebted to intercourse with their fellows, in meetings of societies and otherwise, for much of the knowledge they possess. Apart from what horticultural societies have done for gardeners directly, they have accomplished a great deal more in another way; they have widened the horticultural sphere, extended the knowledge of gardening to multitudes of people who before had only a vague idea of what the term meant, assuaging it only with the possession of millions of money; and right here comes to view the benefit of such societies to the trade through the foster-

ing of the love of plants and flowers among the public. Better a hundred persons buy a plant even at a somewhat reduced price, than only one at a fancy price; that is now the progressive men in the trade are beginning to look at the matter now.

Besides an increased fondness for plants engendered by the influence of horticultural societies in cities and rural communities, such societies had not a little to do with the marked tendency of late years for people of moderate means to spend much time and some money in laying out and keeping in order the grounds around their dwellings, and many just as their business prospered extended their interest in things horticultural until before long they employed regular gardeners. When a new variety of plant is introduced it is invariably exhibited before some society, there to be seen by the gardeners and others. Those not fortunate enough to be members, or who are not present (which amounts to much the same thing, there is not much good in one's membership if it only consists of pen scratches on the roll, and of this variety and behind the times unless they gain a knowledge of it through the medium of gardening literature, which comes next to the horticultural societies in the promotion of gardening and florists' interests and as aids to success.

DAVID MCINTOSH.

TREE PROTECTION IN CLEVELAND

Plans for a vigorous battle this season with insects that have in past years played havoc with Cleveland's trees have been made by the city forestry department. The fight will be prosecuted in all parts of the city during the summer by the five tree wardens who will work under the supervision of City Forester Horvath. At present the wardens are engaged in the work of trimming and cutting out dead timber from the trees. Dead and dying trees are also being removed from the city's streets. But the question of preventing the spread of insects and deadly diseases is one more momentous than anything else just now. The trees of the city have suffered for years, and without a systematic inspection and treatment it has been impossible to rid them of the pests that have sapped their strength for so long a time.

Thousands and thousands of the city's trees are infested with San José scale, the louse, the cotton-wood worm, and many other insects and diseases. If the city is to preserve its trees and secure results here, such as are currently desired, it is of the utmost importance that a fight is begun at once to exterminate all pests.

IN CONFIDENCE

Don't forget that red carnations are scarce at Christmas and white ones not called for. Take time for the forelock.

Put Flamingo on list for quality and Harry Fern for a seller. The latter variety is a keen keeper and popular with the storemen for that reason.

Don't forget that the season for planting Harris Hillers for Christmas flowering is now almost on, and that many more than were supplied could have been sold last Christmas. New-crop bulbs should be on the market last week of July.

Now pansy seeds now. Don't fool with seed at 75 cents an ounce. Five dollars an ounce is about right for really good quality, size, color, form, and substance. The French Bugnot strain is good. So is the Cassier, Odier, and Trimardeau. But see that these are extra selected and from a reliable source. Zingibeli's giant market and giant fancy are expensive but extra fine.

PLYMOUTH, MASS.,

AS SEEN THROUGH A GARDENER'S EYES

In this old Pilgrim town, gardening in the yards of the houses seems to be a long way behind the times; one reason is the soil is poor, mostly gravel and sand. We do not see the nice well-kept lawns and grass plots that are the glory of an old city in the West or the flower beds. There are tree lawns in some of the streets. Elm and beech trees are plentifully in the line of old trees in town. What I have not seen in many places are several laborer's trees, sometimes about fifteen feet tall and their pendant golden yellow trusses looked fine among the green foliage. I noticed some double scarlet and white hawthorns in some of the older gardens and yards; there are also some box bushes which formerly formed the walk edgings, but are now grown out of all shape and would be better dug up. I learn that until the recent severe winters the boxwood stood the cold without being hurt.

We have two florists here, both named Lannan. One is baggage man on the Boston train. His wife looks after the two small greenhouses as to airing and waiting on customers while he is away. He also does quite a Mayflower business. He says that from early in April to middle of May he had took to Boston 4,000 bunches and got sale for all. He has carried on this business for about fifteen years and has a regular staff of pickers who bring in flowers ready to hand. The land all around this town is very uneven—hills and hollows. A few miles east are hills covered with oaks and some birch and cedars, with a jungle of undergrowth in many places of wild briars and lots of wild roses. The soil is stiff clay with a hardpan bottom, with great boulders all through and all sizes of smaller stones.

Jordan's is the crack place near here, but I have not seen it yet. Then we have everything there connected with the Pilgrims, but that is another story, and those who would like to see the rock where they landed and their other landmarks can come and explore for themselves.

W. SWAN.

PERSONAL

Ralph Ward will now manage the business of his father, George M. Ward, at Beverly Cove, Mass.

Knuth Carlson of Hartford, Conn., has taken charge of the Morris Floral Co. greenhouses, Morris, Ill.

Mr. and Mrs. M. Hutchison sailed on S. S. Bremen on July 6, for a visit to Europe—a business trip and deferred wedding journey combined.

Carl Beyer has sold his greenhouse and place at Barton, Mo., to Fred P. Reed and will return to Europe again on the first steamer of which he has a trip to Europe.

Miss Lizzie Mills has shaken off for a time the duties and responsibilities of Suzuki & Bida's New York office, and sailed on June 22 on the *Deutschland* for a two months' pleasure trip in Europe.

Arnold Ringier, representative of W. W. Bernard & Co., Chicago, arrived a few days ago on S. S. *Bermuda* from the Bermuda Islands. He reports a scarcity in true Harrisii, but that the common so-called Harrisii stock is plentiful.

On Monday afternoon, July 3, George E. Schulz and Miss Anna B. Shedy were married at Louisville, Ky. They were both connected with Schulz's store. Mr. Schulz being a son of Jacob Schulz. They went from here to Cincinnati. Miss Shedy was a very fine artist and her departure will be greatly felt.



NEWS OF THE CLUBS AND SOCIETIES



AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS

The American Association of Park Superintendents met in annual convention in Buffalo, June 28-30. The business meeting took place at Historical Hall, Delaware Park, in the forenoon of the first day, and was promptly opened by President W. S. Egerton, of Albany, N.Y. The reports of the secretary and treasurer were received and accepted, as was also the report of the executive committee and its recommendations, viz:

Raising the annual dues for members from \$2 to \$5.

Merging the offices of secretary and treasurer into one.

Paying the secretary an annual salary of \$100.

That the annual banquets be dispensed with.

That members one year in arrears be suspended.

That all bulletins of the Association be referred to an editing committee of three before printing and distribution.

J. Horace McFarland, of Harrisburg, Pa., addressed the convention in behalf of the American Civic Association. In a few well-chosen remarks he defined the relative positions of park commissioner and park superintendent, saying that in most cases the superintendent was the real creator and developer of our most progressive park systems, and that too often the commissioners claimed or accepted the credit for achievements which were the results of the superintendent's professional knowledge, efficiency, and ability. It should be the park commissioner's duty and object to conceive a proper system for the city, to acquire the necessary lands, secure the means for their development, maintenance, and protection. In other words the commission was here to provide the work, while it was the superintendent's share to do the work, and accomplish the real purpose for which the department was created. He thought that the superintendent should receive the full share of credit due his efficient and important work. Mr. McFarland complimented the association on the good work already accomplished, and thought that the very valuable bulletins of the association should be brought more within the reach of all interested in park work and civic improvement in general, and he thought that the official publications of the Civic Association would provide excellent means for the proper dissemination of the valuable information which those bulletins contain, and he urged the closest possible relations of the two associations, as having the same object and aim in view. Mr. McFarland's address was received with interest and heartily applauded.

President Egerton, before appointing a committee on nominations for the ensuing year, expressed his thanks for the courtesies received during his term of office. He was in favor of having the office of president occupied by a different member every year, while he thought that such an office secretary as the association had at present should be retained by all means. The following officers were then elected unanimously:

President, Theodore Wirth, Hartford, Conn.; secretary and treasurer, J. W. Duncan, Jamaica Plain, Mass.; vice presidents, Byron Worthen, Manchester, N.H., John Chambers, Toronto, Can., W. J. Zartman, Brooklyn, N.Y., Edward Baker, New Orleans, La., W. R. Adams, Omaha, Neb., R. H. Warder, Chicago, Ill.

The following new members were admitted:

Edward Perry, superintendent state reservation, Niagara Falls, N.Y.; James Braik, assistant superintendent parks, Buffalo, N.Y.; John Pearce, superintendent parks, London, Ont.; Frank Baker, superintendent National Zoological park, Washington, D.C.; V. G. Dubuis, superintendent parks, Peoria, Ill.; Alex. Cumming, forester department parks, Hartford, Conn.; Fred. Nussbaumer, superintendent parks, St. Paul, Minn.; Edwin A. Kanst, assistant head gardener, South Park, Chicago.

After the business meeting the members adjourned to the nearby Pavilion facing the lake, where a fine lunch was enjoyed, and the courtesies and hospitality extended the association by the park commissioners of Buffalo gracefully acknowledged by President Egerton, whose remarks were cordially and humorously responded to by President Hengener of the park board. The afternoon was devoted to a drive through Delaware Park, and the connecting parkway to Humboldt Park. The fine meadow, beautiful drives, and thrifty trees of Delaware Park were never seen to better advantage, and the short visit to the zoological garden was



THEODORE WIRTH
President-elect American Association
of Park Superintendents

enjoyed by all. The groves, lawns, and floral displays of Humboldt Park were very attractive, and the immense circular wading pool of 500 feet diameter, with its appropriate surroundings and approaches was admired, and its usefulness so well illustrated, recognized by all.

The long drive through the seemingly endless residential district of the city to the "Front" was a revelation to all and the opinion was universally expressed that Buffalo had the best developed residential districts of any city so far visited by all those present, and the numberless magnificent buildings, well kept trees and lawns, tastefully planted grounds, and clean sidewalks and streets deserved all the praise that was forthcoming. Unlimited praise was given to Assistant Superintendent Braik, who was held directly responsible by his superiors and associates for the excellent condition in which the parks under his jurisdiction were found.

A visit to the botanical garden at South Park was made the third day of the convention, and under the guidance of the genial

director, Professor Cowell, the extensive and very interesting grounds were thoroughly inspected.

The ponies were about passing away, but there was enough evidence left to show that it must have been a glorious sight when they all were at their best. The visitors were very strongly impressed with the very unfavorable location of South Park as the site of a botanical garden, and expressed their opinion that the very valuable plant collections, both under glass and outdoors, should be transferred at as early a time as possible to a site much more remote from manufacturing districts, in an atmosphere free from smoke and gases. Mr. Warden introduced a resolution to that effect which was unanimously adopted, and the secretary was instructed to forward a copy to Professor Cowell.

Lunch was served on the spacious piazza of Professor Cowell's residence.

The second day was occupied by a trolley ride to Niagara Falls, where the members were received by Superintendent Perry, who conducted them all over the reservation on electric omnibuses. After a trip on the Maid of the Mist, the visitors were landed on the Canadian side of the river, where they were taken in hand by Superintendent Wilson, and horticulturist Cameron of the Queen Victoria Park. An excellent lunch was served at the splendid new refectory. Short speeches by Messrs. Egerton, Wilson, and Cameron were enjoyed as much as the fine menu. A stroll through the grounds in the immediate vicinity of the building brought the visitors to the excellent collections of perennial plants.

After enjoying the beautiful sight of the Horseshoe Falls, a special trolley car took the visitors along the very interesting works, now under construction by the Canadian Power Co. at a total outlay of \$25,000,000. A short stop was made at the General Brock Monument, where Mr. Wilson gave an interesting talk. The excellent view from this point was the crowning feature of the day's outing.

The return trip was made on the American side of the river, along the rapids and the whirlpool of the Niagara.

A majority of the visitors accepted the cordial invitation of the park commissioners of Rochester, and went there on Saturday, July 1. They were most cordially received, and under the able guidance of Superintendent Laney and Assistant Superintendent Duncan ascended the heights of Highland Park in a trolley, drawn by eight horses. The well-arranged and cultivated collections of trees, shrubs, and plants in general here displayed were a revelation and a most instructive object lesson. The entire park system was visited and the drive through the Meadow Park and on both sides of the Genesee River was most inspiring. In the evening an elegant banquet was tendered at the Power House by the Park Commission to the visiting guests, and with this the 9th annual convention of the association—the second since its branching out into a national organization—came to an appropriate and most pleasing end. The attendance, considering that the large majority of the members are from the New England states, was quite satisfactory. The selection for next year's meeting place was left with the executive committee, the invitation by telegram from the mayor of Toronto, Can., being referred to its consideration.

The following members were present: Gustave G. Amrhy, New Haven, Conn.; John Chambers, Toronto, Can.; Guy H. Chase, Princeton, Mass.; John F. Cowell,

Buffalo, N.Y.; John W. Duncan, Jamaica Plain, Mass.; J. Lancy, Rochester, N.Y.; John Dunbar, Rochester, N.Y.; W. S. Egerston, Albany, N.Y.; Henry Frost, Haverhill, Mass.; H. A. Hastings, Springfield, Mass.; Arthur Hay, Springfield, Ill.; John Henderson, Montreal, Can.; Charles E. Keith, Bridgeport, Conn.; Isaac Kelly, Lawrence, Mass.; F. L. Mulford, Harrisburg, Pa.; A. Pineau, Montreal, Can.; J. B. Shea, Jamaica Plain, Mass.; R. H. Wender, Chicago, Ill.; James Wilson, Niagara Falls, Ont.; Theodore Wirth, Hartford, Conn.; Byron Worthen, Manchester, N.H.; Edward H. Perry, Niagara Falls, N.Y.; James Braik, Buffalo, N.Y.; Jules Crépau, Montreal, Can.

NEWPORT HORTICULTURAL SOCIETY

The June exhibition of the Newport Horticultural was a success despite some occurrences, avoidable and unavoidable. One was a prolonged downpour of rain that spoiled the strawberry crop. The rain also spoiled the roses of some intending exhibitors. Lager & Hurrell put up a table of orchids in bloom, each specimen perfection in itself. In the collection, besides many grown in commerce and in private collections, there were many plants that are rare and of great value. Mr. Struck, who presided over this exhibit, was as genial as usual and had balm enough in the admiring throngs. Julius Rochers' Co.'s exhibit consisted mainly of orchids and new and rare foliage plants, among them being *Heliconia edwardus* Rex, which was much admired. There were in the collection many other gems. Considering all of which, it seems a pity that a little more recognition was not given these two exhibits, as they were unique and of educational character. H. A. Dreer & Co. showed a large number of water lilies, for which a silver medal was deservedly awarded, but what perhaps pleased H. A. Dreer & Co. representative as much as the award to them, was the exhibition of a superb specimen of their specialty—*Pandanus Sanderae* by David McIntosh, the only one in the show. The collection of vegetables put up by James Robertson was far ahead of anything ever seen in Newport.

The gateway decorations were the favored attractions for the society visitors. Andrew Meikle won out with a good make-up of Japanese maples and dwarf box with stone and ivy fixings, while Bruce Butterton was what might safely be called an extremely dangerous second. Mr. Butterton's decoration was ingeniously gotten up with pyramid box, eunomys, and ferns, and rustic rocks, and moss for fixings, the whole showing something unique and attractive. Both groups of foliage plants were good. Colin Robertson had again the best of it in material. David McIntosh, gardener for Mrs. C. M. Bell, put up a group of dracaenas that was regarded as the best ever seen here.

The class showing the keenest competition aside from the gateways was that for table plants. Mr. Meikle captured this cup also, with a nice, clean lot of stuff, but here he had another dangerous second in Mr. Stark. Mr. Meikle's was the only entry for the group of palms and flowering plants, but although he had a walkover, the group was a credit to him. Conspicuous in this group Baby Rambler roses showed up brilliantly from out of a luxuriant fringe of Nephrolepis Scottii. Scottii showed one more eye that he put to with much satisfaction to the user. H. A. Walsh put up a grand exhibit of Lady Gay roses, trained in pyramid form. Placed on the steps of the Casino Theatre, they were at all times the center of attraction for the visitors, especially the ladies. Mr. Walsh also showed several hybrid perpetual varieties for Miss Fay, receiving a certificate of merit for them as well as for Lady Gay.

Fruit was not up to the average by any means, and there were no tea roses worth mentioning.

The judges were Andrew J. Pow, Paul Volquardsen, and John P. Hammond.

F. R. Pierson Co. was represented at the exhibition by James T. Scott, Julius Roche by Thomas Knight, Lager & Hurrell by J. E. Struck. Bobbink & Atkins were also represented and intended to have hybrid perennials, but their exhibit failed to come in time. Henry A. Dreer & Co. were represented by Mr. J. S. Hay. The attendance was good, more than forty times as many paid for admission than did last year, and all we trust, were satisfied. Now for September!

LIST OF AWARDS

Gateway decoration. 1st prize, silver cup, offered by Miss Keteltas: W. S. Wells, Andrew S. Meikle, gardener; 2nd, E. J. Berwind, Bruce Butterton, gardener; 3rd, Miss Fanny Foster, Andrew Christensen, gardener.

Group of palms and foliage plants. 1st prize, offered by Alfred G. Vanderbilt: W. S. Wells, Andrew S. Meikle, gardener; 2nd, Mrs. Robert Goeltz, Colin Robertson, gardener.

Table of decorative foliage plants. 1st silver cup, offered by Mrs. Perry Belmont: W. S. Wells; 2nd, Charles D. Stark, gardener for Mrs. George W. Collard; 3rd, Mrs. Astor, James Boyd, gardener.

Group of palms, ferns, and flowering plants. 1st prize, \$25, offered by W. Watts Sherman: W. S. Wells.

Specimen arcaea. 1st, Mrs. Robert Goeltz; 2nd, Mrs. C. M. Bell, David McIntosh, gardener. Specimen kentia. 1st, Mrs. Robert Goeltz; 2nd, Charles D. Stark; 3rd, W. S. Wells. Specimen any other species palm. 1st, Mrs. George W. Collard; 2nd, Mrs. Robert Goeltz; 3rd, Perry Belmont, John Marshall, gardener. Specimen fern. 1st, Mrs. Ogden Goeltz, James J. Sullivan, gardener; 2nd, W. S. Wells; 3rd, Mrs. Astor.

Collection of outdoor roses, named varieties. Prizes offered by Miss Fanny Foster. 1st, Wm. Waldorf Astor, Hugh Williamson, gardener; 2nd, Hon. Perry Belmont, John Marshall, gardener; 3rd, J. Lawrence Van Alen, John A. Boyle, gardener. Outdoor roses arranged for effect. 1st, Perry Belmont; 2nd, Mrs. Robert Goeltz. Fancy basket of roses. 1st, W. S. Wells; 2nd, Perry Belmont; 3rd, Oscar Schultz. 25 American Beauty roses. 1st, Mrs. Ogden Goeltz; 2nd, Perry Belmont. 12 hybrid perpetual roses, 12 varieties. 1st, Miss Fanny Foster, Andrew Christensen, gardener; 2nd, Mrs. Robert Goeltz; 3rd, Mrs. T. O. Richardson, James Robertson, gardener. 12 hybrid perpetual roses, 6 varieties. 1st, Perry Belmont; 2nd, Mrs. Robert Goeltz; 3rd, Miss Foster.

12 hybrid perpetual roses, 1 variety, red. 1st, Mrs. George W. Collard; 2nd, Mrs. Robert Goeltz; 3rd, Mrs. Ogden Goeltz. 12 hybrid perpetual roses, 1 variety, pink. 1st, Mrs. Robert Goeltz; 2nd, Perry Belmont; 3rd, Mrs. Thomas J. Emery, Alexander Anderson, gardener. 12 hybrid perpetual roses, 1 variety, white. 1st, E. J. Berwind; 2nd, Mrs. T. O. Richardson; 3rd, Miss Fanny Foster. 12 hybrid perpetual roses, any varieties. 1st, Mrs. Ogden Goeltz; 2nd, Miss Fanny Foster; 3rd, Mrs. Robert Goeltz. 25 hybrid tea roses. 1st, Perry Belmont; 2nd, Mrs. J. C. Mallory, F. S. France, gardener.

Basket of roses, open to gardener's assistants only. 1st, Samuel Williams, assistant to John Marshall; 25 golden bloom prizes offered by T. G. Owen; 2nd, Perry Belmont. Collection of herbaceous blooms. 1st, Mrs. Thomas J. Emery; 2nd, Oscar Schultz; 3rd, Perry Belmont.

Bunch black grapes. 1st, Mrs. Thomas J. Emery; 2nd, James McLeish; 3rd, Charles

D. Stark, Jr. Bunch white grapes. 1st, Mrs. Thomas J. Emery; 2nd, Charles D. Stark, Jr. 6 nectarines. 1st, James McLeish; 2nd, Mrs. T. O. Richardson. 6 peaches. 1st, Mrs. Astor; 2nd, Perry Belmont. 12 tomatoes. 1st, James McLeish; 2nd, C. D. Stark, Jr. 2 cucumbers. 1st, James McLeish. Collection of vegetables. 1st, Mrs. T. O. Richardson; 2nd, Charles Kitchie, 3rd, Mrs. Thomas J. Emery. Melon. 1st, Charles D. Stark, Jr.

SPECIAL AWARDS

Henry A. Dreer, silver medal for collection of water lilies. David McIntosh, gratuity of \$10 for display of dracaenas. William G. Postings, gardener for Mrs. Winthrop Chanler, \$10 for display of campanulas. Samuel Spicers, gardener for Mrs. W. B. George, \$5 for dish of strawberries. Imbach John Rochers Co., certificate of merit for collection of new and rare plants. Lager & Hurrell, certificate of merit for collection of orchids. Gibson Bros., gratuity of \$5 for seedling delphiniums. Paul Volquardsen, silver medal for vase of new rose, Frau Karl Druschki. Samuel Spicers, \$3 for cuttings. J. Mitchell Clark, A. McLellan, gardener, bronze medal for water lilies. James J. Sullivan, \$2 for delphiniums. David McIntosh, \$5 for *Pandanus Sanderae*. Alexander McLellan, \$5 for herbaceous blooms. John Marshall, \$5 for carnations. James Boyd, \$2 for *Dracaena Rumpii*. Stewart Ritchie, certificate of merit for new potato, Noroton Beauty. H. A. Knox, bronze medal for a new sprinkler.

NEW YORK FLORISTS' CLUB OUTING

The New York Florists' Club, not limited to the annual picnic for its social refreshment, but, after all, the annual picnic is the culmination of the year's good times, and much of the club's prosperity depends upon its success. As success in such an affair depends mainly upon the committee in charge, and as the right kind of a committee was intrusted with the work, it only remains to record the success which everybody expected and which was assured. But it may safely be said that very few of those who participated in and enjoyed this happy occasion have any conception of the amount of loyal, unselfish work, which was put into it by the gentlemen upon whom was placed the burden of preparation, beforehand. It is such devoted and well-directed effort that must be forthcoming to place any organization in the winning class.

This was the fifth in the series of summer outings and, with the experiences of four predecessors, all the obstacles of the past were cut out, and the best things retained, and the two hundred and seventy-five excursionists enjoyed themselves from start to finish, especially the ladies and children. The trip up the Sound, the dinner at Hotel Greenwood, etc., all the annual picnic, and then came the games. There were prizes for every stunt in individual or aggregation of individuals, young or old, could do, regardless of sex or previous record, and the trophies, presented by generous members, were in every case just what the winners wanted.

Louis Schmutz, Jr., managed the bowling match. A. H. Langjahr bossed the racing events. A. S. Burns made most dignified judge, and President Triandly was general referee. H. A. Bunyard filled the difficult position of handicapper, and he is an acknowledged expert thereat when he gets his inspiration. Fifteen ladies participated in the bowling match. In the base ball game the married men wiped the field with the single men, 22 to 8. John Donaldson made the most spares, and six men were out for the strike prize. Rose E. Smith was de-

clared the handsome baby; the judges in this class had taken out extra life insurance, it is said. A. J. Guttman was the prize sprinter in the 100-yard race. President Traudt again proved himself the nimblest fat man, and A. S. Burns showed J. Austin Shaw, J. G. Esler, and J. S. Allen a pace in the 100-yard race for men over 50 years of age that should furnish food for reflection for a long time to come. There were about two score other classes competed for by young and old, and the best man, boy, or girl won out every time. There will be another picnic of the same kind next year; if you didn't go this time, put it on the calendar.

CANADIAN HORTICULTURAL ASSOCIATION

The official program of the Canadian Horticultural Association for the eighth annual convention to be held at Montreal, August 8-10, 1905, is received. Following is a synopsis of it:

Tuesday, Aug. 8, A.M., opening exercises, addresses and reports.

Tuesday P.M., a lecture, "Park Design," illustrated, Frederick G. Todd, Montreal; essay, "How to keep a greenhouse attractive in winter," Thos. McHugh, Dorval, P. Q.; essay, "How to keep grounds attractive in summer," R. Burrows, St. Anne de Bellevue, P. Q.; Question Box.

Wednesday, Aug. 9, A.M., a review of roses and carnations to present date and their special requirements, J. H. Dunlop, Toronto, Ont.; question, "What is the best way to grow Neprolepis?" discussion opened by Mr. J. Bennett, Lachine, P. Q.; essay, "Violets," F. L. Girdwood, Montreal, P. Q.; choice of place for next meeting; Question Box.

Wednesday afternoon, visiting local establishments.

Wednesday evening, unfinished business; essay, "Fertilizers for greenhouse purposes," Wm. Downing, Brampton, Ont.; question, "Is co-operation practical in the florists' business?" discussion opened by J. M. Kenna, Cote des Neiges, P. Q.; election of officers; final committee reports.

Thursday, Aug. 10, guests of the city of Montreal, C. H. A. banquet in the evening.

Friday, Aug. 11, guests of the Montreal Gardeners' and Florists' Club; a visit to St. Anne de Bellevue and other places in the vicinity of Montreal.

The sessions will be held at Natural History Hall. There will be a trade exhibition, under the management of George Robinson, Outremont, Montreal.

The officers of the C. H. A. are as follows: President, George Robinson, Outremont, Que.; 1st vice-president, J. Suckling, Truro, Nova Scotia; 2d vice-president, O. G. Johnson, Kingston, Ontario; treasurer, Hermann Simons, Toronto, Ont.; secretary, A. H. Ewing, Woodstock, Ont.

Executive Committee.—One year, W. Algier, A. C. Wilshire, J. Campbell; two years, W. Gamme, R. H. Wright, J. H. Dunlop; three years, A. Pinoteau, J. Walsh, E. Annandale.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

The Southwestern Extension Bureau announces a round trip rate of one and one-third fare to the Convention at Washington in cooperation with the other railroad passenger committees who have made similar announcements. The territory under the jurisdiction of this bureau includes Southern Missouri, Southeastern Kansas, Arkansas, Oklahoma, Indian Territory, and Texas.

WM. J. STEWART, Secretary.

CHICAGO FLORISTS' CLUB

The Chicago Florists' Club smoker and convention rally came off Friday, June 30, at Hotel Bismark; over forty were present. The banquet room was decorated by E. F. Winterson Co., who donated the flowers. A five course Dutch lunch was spread, after which a short business meeting was held. Pres. W. N. Ridd could not attend on account of the death of his father-in-law and in the absence of vice-president J. P. Risch, F. F. Bentney was elected as chairman and called the meeting to order.

Chairman P. J. Hausworth of the Transportation committee reported plans well under way for the Washington trip. It is proposed to make Cincinnati the meeting place for the delegates from the whole west and northwest and thence go by special train. Chicago, Indianapolis, St. Louis and others are formulating plans to this effect. At our banquet thirty-one announced their intention of attending.

E. F. Winterson, chairman of sports, reports his team in fine condition. Trophies won on former occasions were on exhibition.

Songs by Mr. Carter opened the entertainment. J. C. Vaughan gave an interesting talk on California horticulture. P. J. Foley spoke of his experience at Springfield trying to secure an appropriation for experimental purposes. The Chicago Florists' Club quartette rendered several selections. An enjoyable time was had all round.

A vote of thanks was tendered Mr. J. C. Vaughan for his interesting paper, also to E. F. Winterson Co. for the flowers and decorations.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB

The annual outing, boat excursion, and basket picnic of this wide-awake organization will be held on Wednesday, July 12, when the members and their friends will board the good ship *Frances Torrance* for a sail up the beautiful Monongahela valley, at 8.30 A.M. There will be dancing, base ball, and other athletic sports, athletic only necessary to say that H. L. Blind, Fred. Burki, and John Bader are the committee in charge to assure all that a good time is in prospect. The list of prizes has been printed and may be had on application to the committee. There are twenty-eight of them, all donated by members and friends.

TARRYTOWN HORTICULTURAL SOCIETY

This society held its regular monthly meeting on Tuesday evening, June 27. Three new members were elected and two names proposed for membership. The prize this month was given for the best collection of out-door flowers, shrubs included. Several fine collections were staged, the winning lot coming from Greystone, Samuel Untermyer's place at Yonkers, his gardener, John Featherstone, staging over sixty varieties. The F. R. Pierson Co. exhibited a number of beautiful varieties of iris, also some of the newer climbing roses all of which were very much admired. It was decided to hold the annual outing in August, Rye Beach being selected as the most accessible to the majority of the members.

WM. SCOTT, (Cor. Secy.)

NEW LONDON COUNTY HORTICULTURAL SOCIETY

The rose show of this society, which took place last week at the armory in New London, Conn., was eminently successful, except in the matter of attendance, which was affected by the unpropitious weather. The exhibits and their arrangement were lovely, and the affair reflected great credit on managers and exhibitors. Among the chief dis-

plays were Lager & Hurrell, Julius Roehrs & Co., Estate of G. Geduldig, and John Maloney, gardener for C. S. Guthrie.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The Gardeners' and Florists' Club of Boston had a field day on Saturday, July 1, that put all previous affairs in this line far into the shade. Seventy-five members participated in the visit to Wm. Sim's greenhouses at Cliftondale. The high quality of the product turned out at this noted place, together with the personal popularity of the proprietor, was the magnet and all who went were well repaid. Five houses of tomatoes in fruit, three houses of chrysanthemums, and a field of Princess of Wales violets were inspected and duly admired; then the chef took charge of the entertainment with unqualified success. Speeches followed—M. A. Patten, Peter Fisher, W. C. Stickel, Thos. Roland, Alex. Montgomery, and others all prominent in the floricultural life of metropolitan Boston, being heard from in appreciative words for their successful fellowcraftsmen whose guests they were. The departure was made reluctantly and with many mental resolutions that this would not be the last visit to Cliftondale.

NOTES

The Florists' Mail Association of America has paid out nearly \$18,000 for glass broken by hail during the past year.

On June 24, a good rose show was held at Central Falls, R.I., under the auspices of the Naturalist Society. The proceeds of the enterprise will go to the new building fund.

The George M. Stumpff Employees' Association, will hold their seventh annual outing at Silver Lake Park, Staten Island, July 12, 1905.

Come one, come all!

WM. C. FOGARTY, Press Agent.

A very pleasant time was had at the florists' social gathering tendered the florists and their friends by Messrs. Rusconi, George and Allen, at the Norwood Inn, Cincinnati, O., on Thursday, June 8. An Italian lunch was served to nearly two hundred guests. There was bowling and baseball in the afternoon and dancing in the evening.

The Kentucky Society of Florists will hold its meeting Tuesday afternoon, July 11, at New Albany, Ind., at Anders Rasmussen's place. Members are requested to bring their families with them and meet at 2 p.m. at the Vincennes street station. Although the meeting will be in the form of an outing, important show matters will also come up.

The annual June show of roses and strawberries under the management of the R. I. Horticultural Society, was held at Providence on June 26, and was satisfactorily successful. The strawberries were unusually good. The rose and other cut flower awards as reported show the usual absence of the commercial growers of the State. What is the matter with this society?

A free exhibition of roses and other plants and flowers was given under the auspices of the New Bedford (Mass.) Horticultural Society at the Y. M. C. A. Building on June 20. The main exhibit came from the gardens of Miss S. B. Fay at Woods Hole, and was staged by M. H. Walsh. Dennis Shea for Mrs. Horatio Hathaway, Wm. Keith for Thomas M. Stetson, and James Garlhey for H. H. Rogers were among the other exhibitors. In the evening Mr. Walsh delivered a lecture on rose topics before a goodly audience.

ROSES

A Paper read before the Gardeners' and Florists' Club of Boston, by M. H. Walsh.
(Continued from last week's issue)

A good rose bloom carries with it good foliage; you cannot well get one without the other; they are inseparable, as the flower is only the foliage developed and this means good food, frequent syringings, and applications of water when needed. The leaves of the plants are termed the lungs of the plant and they absorb a great deal of nitrogen from the soil; therefore the necessity of rich soil, as you cannot get nitrogen if there is none in the soil. You cannot take from the soil what it does not contain. It is from the soil the plants sustain life and exist. The soil should receive careful consideration.

Stir or hoe the ground frequently, weeds or no weeds; the proper time to hoe is when there are no weeds; this is beneficial to roses. Take and hoe a piece for proof of this, leave a piece along side not hoed; look at the two pieces or rows of plants; the following morning compare and observe which has the heavier dew-drops on the leaves and consider whence it came on one row of plants and not on the other.

The pruning of hybrid perpetuals should be carefully done, having in mind the character of the varieties. The weak growing varieties such as Gustave Pigeau, Marie Beauman, Marie Finger, and others of like character should be pruned to three eyes from the ground. The more vigorous growing kinds should be pruned six to eight eyes from the ground; that is to say, for the weak growing kind prune close as above; and the more vigorous, not so close. This may be termed pruning for quality. The method pursued generally in this country appears to be based on quantity rather than quality, sparing the knife and exhausting the plants by overcropping and producing quantity instead of quality. Far better sixteen or twenty good first-class blooms than forty or more inferior blooms. By pursuing this system of pruning, it promotes and encourages strong vigorous shoots for the following year's blooms. The number of shoots for the plants may be determined by the size and vigor of the plants; this applies to the hybrid perpetuals or hybrid remontants. Close or severe pruning as it may be termed, practically produces strong, young, vigorous wood, even on very old plants, and they may be grown for many years providing, however, the plants are taken up and roots pruned once in six or seven years.

The following list contains the names of what the writer considers twenty-four of the best varieties:

Alfred Colomb, Baroness Rothschild, Abcle Carriere, Chas. Lefebvre, Clio, Dr. Audry, Dr. de Lillibough, Earl of Dufferin, Etienne Levet, Frau Karl Druschki, General Jacquemont, Heinrich Schultheis, Horace Vermet, Jubilee, Louis Van Houtte, Mad. Gabriel Luizet, Marie Beauman, Marquise de Castellane, Maurice Bernadine, Mrs. John Laing, Mrs. R. G. Sharman Crawford, Margaret Dickson, Prosper Laugier, Ulrich Brunner.

WINTER PROTECTION OF HYBRID PERPETUALS.

I find drawing the soil around the base of the plants, as you would hill up potatoes, sheds off the rain keeping the soil dry around the base of the plants; hill up eight or nine inches and fill in and over the surface, four or five inches of manure. This protects the roots and is in good condition to dig in the spring. This may be done early in November, it having a tendency to harden and ripen up the wood before severe cold weather sets in. The object of hilling up is to protect eight or nine inches of the wood; it matters little if the tops do winter-kill. Sometimes I think

it a blessing in disguise, especially where close pruning is not practised.

Hellebore dusted on the leaves early in May when the second leaf appears on the young shoot, will destroy the leaf roller or slug. Usually two applications are sufficient unless washed off by the rains. When the white thrips or hopper appears, it indicates lack of moisture in the soil; this thrips will not attack the plants only in the hot, dry weather when the ground is deficient in moisture. Call into requisition the force pump or hydrant hose, syringing the bushes on the underside of the leaves. Do not wait for the elements to supply water; delays are dangerous.

For exterminating aphids, frequent syringings with force pump or hose will prove effective and beneficial. For mildew, sulphur dusted over the affected plants will allay this disease. For rose or Hessian bugs, hand picking is the only effectual remedy. A good preventive is to plant near by some small white shrubs, viburnum or white weigela; this will attract the rose bugs. A white flower has a peculiar attraction for them. You have noticed how they select the white or lighter-colored roses rather than the darker colored. This bug is the most detestable and destructive pest to contend with.

THE HYBRID TEA.

This may be properly called the true perpetual rose. While the number of varieties which have proved hardy enough to withstand our climate is not large, there are at least fifteen varieties which prove most satisfactory with careful cultivation and protection. This class of rose requires a light sandy soil for its best growth and development. The hybrid teas are growing in favor each year. This is the coming rose, and in the course of ten years I predict these will displace or supersede the hybrid perpetuals. The large number of new varieties which will be introduced with in the next two years, together with the varieties proving hardy and already being grown here, will make a list of everblooming roses.

This rose appears to withstand our severe winters as it becomes acclimated. To my surprise, I found Madame Abel Chatenay to have stood the winter by simply drawing the earth up around the base of the plants; no other protection being provided. Moisture or wet, heavy soil is not suited for the hybrid tea, therefore a light sandy soil well enriched is desirable; the lighter the soil, the drier and warmer. To carry these through the winter the soil should be drawn up around the base of the plants not later than November fifteenth; this tends to ripen up and harden the wood to better withstand the winter. A layer of coarse beach hay placed over the surface of the ground and around the plants answers well, and it does not hold the water. Over this place some evergreen branches to protect the plants from the sun and cold winds. The cold March winds and strong bright sun cause much injury to all roses as well as to trees and shrubs.

The following list of hybrid teas is most desirable:

Augustine Ganneau, Caroline Testout, La France, Bevis Brown, Grace de Tipton, Maman Cochet (white), Maman Cochet (pink), Mme. Abel Chatenay, Madame Joseph Combet, Ferdinand Jamin, Flush o' Dawn, Kaiserin Augusta Victoria, Papa Gontier, and President Carnot.

Hybrid tea roses require little pruning, cutting out the weak shoots and dead wood being sufficient. The long season of blooming of this beautiful class of roses beginning in mid-June and continuing until November, together with their beautiful colors and fragrance causes them to be much in demand. A rose which will bloom all summer and prove

one with careful protection, will be the people's garden rose. This class is being introduced into this country as well as in England, Ireland, and Germany, the constitution of the new varieties being strong to withstand our severe climate. The rose hybridizers in the United States are at work to improve this class of roses, and the work which is naturally slow, there is work being done and in due course results will be known. This cannot be accomplished in one year or two as with carnations; it requires at least five years to fix the character and quality of the new roses become permanently fixed. The writer has one plant seven years old, flowering this season for the first time. Patience is a virtue the rose hybridist should possess. Often-times it requires two years for rose seeds to germinate, while in some instances the seeds will germinate in about four to six weeks.

Nature is not lavish in giving us improved varieties; therefore they cannot be produced at will. Thousands are raised and tested, but only a few chosen. The quality and standard of roses are improved and it becomes more difficult to produce new and meritorious varieties than was the case ten years ago. All gardeners and florists should interest themselves in this most fascinating work, possess themselves with patience and experiment on the lines from which in their good judgment they would get the best results.

Within the past ten years there has been introduced what may be called a new race of climbing decorative roses for the garden. These are being grown by many at the present time in various forms giving much pleasure and satisfaction, as hardly climbing or trailing roses. These hybrids are the result of hybridizing, using the Japanese varieties as parents. They are valuable acquisitions to the already long list of varieties being grown at the present time. They produce a most artistic effect. When in bloom the contrast of foliage and flower, together with the delicious fragrance, places them easily in the front rank. These first about the first week in July, the beginning of the rose season in this garden fully four to five weeks. Some varieties flower a second time from September to frost. These may be used to great advantage grown as ground roses for covering banks, rockeries, etc. They grow most rapidly in ordinary garden soil well enriched. They require light pruning, merely cutting the tips of the shoots.

The following named are considered among the best in this class:

Carissima, Debutante, Farquhar, Galety, Hiawatha, Lady Gay, La Flamme, Philadelphia Rambler, Manda's Triumph, Dorothy Perkins, and Wedding. These roses may be used for edging for beds by pegging down, and they are very effective with their mass of blooms.

Never in the history of this country has the rose been in such demand as at the present time. The popular interest and awakening in the garden rose is the best proof of the high esteem it commands as the Queen of the Garden. A most hopeful and encouraging sign of the times is the increased interest for garden roses, the work being done in making and planting new beds, the inquiries for the best garden roses and the new varieties, the increased demand for the rambler class, and the increased intelligence by the amateur class in matters relating to rose growing. It is evident the rose takes first and the prominent place in the garden and will maintain its title and position while flowers are grown. There is no flower that appeals so strongly to one as the fragrant rose.

May the developing and perfecting of the rose continue, and may each year bring forth new American types which will adorn the gardens of all who grow this beautiful flower.

OLD COLONY CUTTINGS

A new florists' delivery wagon, unequalled, with one exception, between Boston and Brockton, has appeared in Quincy. It bears the inscription "Derringer, Florist, Glover Ave." Before this evidence of prosperity, Mr. Derringer resorted to various devices for delivering his goods from an ordinary democrat or express wagon. Sometimes his flowers would be in boxes, sometimes on a sheet spread over the bottom of the wagon, or occasionally the driver had to hold the piece in one hand while he drove with the other. In these days of immense glass areas, large capital, and highly systematized methods in all departments of plant and flower production for the wholesale market, the grower with limited resources is forced to a careful consideration of conditions, in order to find a living chance for himself. It is possible that in some instances, the best chance is found, or made, in a supreme effort to build up a business on strictly retail lines of which funeral work constitutes an important part. Now, the writer of this article is in full sympathy with that which has appeared a number of times between the lines in the editorial columns of HORTICULTURE—namely, that, in the evolution of the supply and demand of the cut-flower business, the time approaches when the arrangement of flowers which brings out, in the most artistic manner, the characteristics of the individual flower, and its harmonious relationship to its environment, will entirely supersede the tooth-pick and wire. That time has not yet fully come, however, and therefore the only course to be taken where piece and design is called for is to endeavor to give the best possible satisfaction in that class of work. Mr. Derringer has about three thousand feet of glass which is used to grow ferns, palms, flowering plants, and bedding stock, confining his effort to building up a business upon strictly retail lines and he probably came nearer to success than he would have done had he tried to grow for the wholesale market.

The greenhouses, lawns, and gardens of Miss Abby Bradley, at Hingham, under the care of Harry Terry, gardener, are models of neatness and symmetry. The fair proportions of many lines in the flower and vegetable garden, this year, however, have been broken into by the ravages of the cut-worm. A border of viola (tufted pansy), in which are some lovely varieties and which has made a fine show in former seasons is badly mutilated. The vicious little pests have also cut off asters, peas, beans, and onions. Plants have had to be reset and seed sown a number of times to keep the rows even approximately full. It is related that some one asked the late Peter Henderson about a remedy for cut-worms. The answer was, that a fortune awaited the man who could find one. Doubtless this gardener, in company with many others, would be glad to contribute his mite towards the fortune for an effectual remedy. Mr. Terry among other things has fine plants of Nicotiana glauca, some of which are in bloom. The blossoms are of a delicate shade of carmine-pink. They are very pretty but not of the striking color which we expected to see in this variety.

Oscar Hay, gardener to Mr. Peter B. Bradley, of Hingham, Mass., has cut 27,000 carnation blooms, from a 50 by 20 house, the present season. Mr. Hay filled his benches with a prepared compost of chopped sod, that was partially rotted, and cow manure. After the plants were established he gave them a top dressing of Bradley's fertilizer every ten days, using about ten pounds of the same to a hundred square feet of bench surface, and followed it immediately with an

GRADUATING CLASS IN FLORICULTURE, MASSACHUSETTS AGRICULTURAL COLLEGE



Readers of HORTICULTURE will be interested to see the accompanying photograph of the graduating class in floriculture at the Massachusetts Agricultural College, for which we are indebted to Professor Waugh. Unfortunately Mr. R. L. Adams, HORTICULTURE's representative, who was a member of this section, was out of town on the day the photograph was taken. The gentleman standing in the middle is Francis Canning, head gardener and instructor of the class. These young men all expect to engage actively in various lines of floriculture and landscape-gardening. In fact several of

them are already at work in their chosen profession, though it is only a week since graduation day.

The men in the photograph, reading from left to right, are:

W. B. Hatch, Falmouth; J. J. Gardner, Milford; P. F. Williams, Natick; G. H. Allen, West Somerville; T. F. Hunt, Weston; R. P. Gay, Stoughton; Francis Canning, Instructor; A. D. Taylor, Westford; H. D. Crosby, Rutland; F. L. Yeaw, Winthrop.

Floriculture is inestimably enriched by the addition of these well-trained, self-reliant young men to the ranks of its followers.

DESTROYING PLANT LICE

The Practical Counselor for Fruit and Garden Culture, of Frankfort, recently offered a prize for the best method of destroying plant lice, for which 58 persons competed. The prize was awarded to the author of the following preparation: Quassia wood, 24 pounds, to be soaked overnight in 10 quarts of water and well boiled, then strained through a cloth, and placed, with 100 quarts of water, in a petroleum barrel, with 5 pounds of soft soap. The mixture is then ready for sprinkling on plants infested with lice. Leaves, even those of peach trees, will not be injured in the least by the solution, which can be kept covered in the barrel from spring to fall without deterioration. As soon as lice appear the leaves should be sprinkled with the solution. If this is repeated several times the pests will disappear.

Edward Goethert, *Conical General, Frankfort, Germany, May 27, 1905.*

G. H. HIGGINS.

According to latest investigation the European area planted in sugar beets covers 3,657,156 acres, exceeding last year's acreage by 17.2 per cent.

The Johnson Heating Co. is a new concern in the greenhouse heating business, with office in the St. James building, New York. Mr. Johnson, the head of the firm, was formerly with Hitchings & Co., and starts with a good knowledge of his business.

SAN FRANCISCO NOTES

In the early hours of a recent street walk till tappers broke into the Geary street store and cash register of the California Florist, Julius Epstein, proprietor, and the Sutter street store known as M. J. Decorators and Florists, conducted by M. J. Deane Manning, manager, and M. J. Cohen, Cohen. The aggregate amount of the robbery received at both stores was only thirty pieces of silver, each of the dollar denomination. The thieves were not posted on present market conditions.

Public and private school commencements this closing week of June have produced a call for flower constructive work that made it a week of exceeding activity for all local florists. "Yet," said a representative of the industry, "this week of hustle hasn't represented the business it should; flowers were over-abundant — altogether too low in price to quote, all owing to the fact that there are too many price-cutters in the San Francisco trade, and our lack of union organization to regulate business."

Following the organization of the first horticultural society south of Tehachapi, as recently reported in HORTICULTURE, another has just sprouted in the name of the San Francisco Horticultural Board of Trade. It is an enterprise on the part of growers for the trade exclusive of Japanese and Chinese. The leading spirit in the movement is P. C. Meyer, proprietor of Glenwood Nursery at Burlingame. This gentleman says that he finds all the principal growers in the bay counties in active sympathy with the movement. At a meeting held recently there was a large attendance, worthy of being reported as a very enthusiastic gathering.

Especially may the people of the great State in which HORTICULTURE is published be thankful for the safe arrival this week in San Francisco harbor of the liner *Manchuria*. Why? Simply because a portion of her cargo, an infinitely small portion though it be, was a little prison box containing a colony of war-like insects from the coast of Asia that are death on caterpillars, warriors specially recruited to massacre the army of caterpillars now destroying vegetation in the Old Bay State and throughout New England. Responsive to a world-wide inquiry sent out by the Agricultural Department at Washington for a parasite that would stop the ravages of the popper-moth in this country, United States Minister Griscom, at Tokio, shipped the colony of insects, believing them to be sure death to the gypsy moths that have been playing havoc in Massachusetts. The parasites are like ants in appearance, but have four wings, with the aid of which they hop about like fleas. They sting caterpillars to death, and their larva hatch out inside of the caterpillars and destroy their consumers, so that they work from both ends, as it were. But the parasites imported by the *Manchuria* are about as vigorous as the gypsy moths, left to themselves, and the greatest precautions have been taken to get them into this country, and will continue to be taken until they arrive in Massachusetts, without any of the insects escaping. If even one of the parasites escapes, the California, says the State Horticultural commissioner, a blight on all vegetation hereabout would follow within a few months, for the insects multiply at the rate of several thousand a day. At Honolulu, horticultural commissioner Alexander Crab took extra precautions against the insects getting loose upon arrival here, and cautioned the accompanying representative guardians of the Pacific Coast Horticultural Society to watch the imprisoned parasites closely.

Seed Trade Topics

Items, personal or otherwise, of interest to the seed trade are solicited and will be given a place in this column.

The condition of the pea crop is regarded with mixed feelings by growers. A few think the crop has been seriously damaged, while others believed the damage reports have been exaggerated. A few more weeks will tell the story.

Unusually cool and wet weather in the East is retarding the growth of many crops, particularly beans and corn. It is now practically certain that beans will not be a large crop, and unless we have a late, warm autumn, the sweet corn crop of Ohio, Michigan, New York, and Connecticut, will be light and of poor quality. Just at present New York appears to be in the worst plight of any, with Michigan a close second.

Echoes from the seedsmen's convention bring complaints from a few of those in attendance, among others being the one that the hotel management did not do things in a liberal way — that they exacted the last cent, and exacted from every one all they "could stand," or, to quote a famous railroad magnate, "all the traffic would bear." Although the writer is not personally cognizant of these things, information which appears to be authentic seems to justify some of the complaints.

It is unfortunate that the first impressions of fair and generous treatment should be questioned.

CATALOGUES RECEIVED

Peterson Nursery, Chicago. List of progenies and German irises. A select list, every variety mentioned is a good one.

LIST OF PATENTS

Issued June 13, 1905

- 792,018. Fruit-Gatherer. Elijah A. Gallup Hancock, Iowa.
- 792,067. Basket or Crate. Walter Morley and Andrew F. McAtee, Salem, Oregon.
- 792,233. Fruit-Preserving Vessel. Viola Norman, Smithton, Ark.
- 792,235. Fruit-Evaporator. William J. Patton, Springdale, Ark.
- 792,089. Fruit-Scissors. George Towers, Canon City, Colo.
- 792,518. Remedy for Tree-Cancer. Emma Homann, Berlin, Germany.
- 792,541. Weeder. Neil McEachern, Walla Walla, Wash., assignor to Adam W. Severance and Milford H. Broughton, Walla Walla, Wash.

Issued June 27, 1905

- 792,750. Lawn-Trimmed. Edmund Barton, Ivyland, Pa.
- 792,771. Banana-Crate. Otto Granke, La Crosse, Wis.
- 792,095. Flower-Pot Holder. Clemens Kirchner, Whiting, W. Va., assignor of two-thirds to Herman Lotz and Thomas Claus, Wheeling, W. Va.

Issued June 27, 1905.

- 793,246. Lawn Mower. Robert L. Teal, Paducah, Ky.
- 793,365. Insect Gathering Machine. James H. Fogle, Delhi, Texas.
- 793,614. Process of Preserving Fruit. Daniel F. Sherman, Chicago, Ill., assignor, by direct and mesne assignments, to California Concentrated Fruit Co., a corporation of California.

GREENHOUSES BUILDING OR PROJECTED

- INDIANOLA, IA. — L. P. Springer, one house.
- NEWBURYPORT, MASS. — C. MacGregor, one house.
- WOLLASTON, MASS. — W. C. Ward, pansy house, 120 x 20.
- CORTLAND, N. Y. — Adolph Frost, two houses, 18 x 50.
- TIKESBURY, MASS. — John Gale, one house, 30 x 200.
- GREENPORT, N. Y. — L. M. Rayner, carnation-houses.
- ATHOL CENTRE, MASS. — E. E. Fairbanks, one house, 23 x 125.
- NORWOOD PARK, ILL. — Carl Niemann, three houses, each 21 x 135.

Reported by J. C. Moninger Co.

- ROCHESTER, IND. — J. H. Shelton, three houses, 17 x 85.
- SHERMAN, TEXAS. — O. H. Hanna, one house, 22 x 130.
- BEARDSTOWN, ILL. — Frank Bros., three houses, 22 x 75.
- DECATUR, ILL. — Mrs. C. Dant, two houses, 20 x 80.
- NEW CASTLE, IND. — Peter Weitand, two houses, 27 x 300.
- ROCKFORD, ILL. — H. W. Buckbee, seven houses, 27 x 260.
- PASADENA, CAL. — R. Schiffman, range of orchard houses.
- OLIVETTE, MO. — O. Jablonsky, three houses, 20 x 130.
- IOWA CITY, IOWA. — J. Aldons & Son, two houses, 22 x 100.
- BRADFORD, PA. — Ernest H. Lucking, two houses, 28 x 100.
- WICHITA, KANS. — Chas. P. Mueller, three houses, 20 x 150.
- KIRKWOOD, MO. — F. W. Ude & Son, three houses, 17 x 100.
- SOUTH BEND, IND. — J. M. Studebaker, conservatory, 23 x 92.
- OAKLAND, MD. — Weber & Sons, eleven houses, new and repairing.
- CARROLLTON, MO. — Kennedy & Farnham, two houses, 20 x 125.
- RODGERS PARK, CHICAGO, ILL. — Peter Nepper, six houses, 24 x 151.
- MOLINE, ILL. — S. A. Stephens, private range, three houses, 23 x 75.
- COUNCIL BLUFFS, IOWA. — Reams Lainson, three houses, 25 x 260.
- BIRMINGHAM, ALA. — Elmi Leaf Greenhouses, four houses, 14 x 100.
- FALLS CREEK, PA. — Goss & Sons, one house, 24 x 200; one house, 24 x 50.
- BOISE, IOWA. — Boise Floral Co., one house, 22 x 75; one house, 22 x 82.
- HIGH RIDGE, ILL. — F. Fortmann, two houses, 27 x 143; one house, 22 x 150.
- PORTLAND, IND. — H. R. Frank, one house, 31 x 300; one house, 33 x 300.
- SEDALIA, MO. — Gelven & Son, two houses, 14 x 120; two lean tos, 7 x 120.
- BEATRICE, NEB. — Dole Floral Co., two houses, 21 x 112; two houses, 17 x 112.
- MILWAUKEE, WIS. — E. Austin, one house, 22 x 150; John Burmeister, one house, 22 x 150.

KANSAS CITY, MO. — R. S. Brown & Son, four houses, 26 x 200; A. F. Barbe, one house, 27 x 240.

AUBORA, ILL. — Aurora Greenhouses, one house, 26 x 120; one house, 12 x 120; one house, 16 x 64.

PARK RIDGE, ILL. — Emil Buettner, four houses, 27 x 125; one house, 20 x 125; one house, 15 x 125.

SPRINGFIELD, ILL. — R. T. Donnell, one house, 37 x 100; A. C. Brown, one house, 30 x 316; one house, 30 x 300.

LIBERTYVILLE, ILL. — J. P. Weitand, (Chicago Rose Co.), three houses, 20 x 500; one house, 10 x 155, detached and connected with center walks.

CUT-FLOWER MARKET REPORTS

BALTIMORE The past week has shown very little change, but considering the amount of stock on hand, the end was fairly satisfactory, owing to the vast quantity of funeral orders which came in. The poor quality of the local-grown roses is causing a demand for select stock, and Beauties, the choice stock of which is ordered from the north, are bringing very good prices, retail. Golden Gates are coming in very good, and just now the market is being well supplied with good out of door Cochet roses. Meteoros are about done with and what is left are brought in at very good prices. Sweet peas also are in their last stages, and are very scarce. Carnations are almost entirely over, many local growers having already taken up their plants; what few are brought into the market are so extremely small and withered that very few calls are made for them.

BOSTON The last week was a very unproductive one in the flower business for dealers and retailers, and the present week is not much different, although there are signs that the period of worst stagnation is soon to be over. Sales are at any price to unload the stock in wholesalers' hands and most of the dealings are with the street fakirs. Lily of the valley is about the only item on the list that has any stability.

BUFFALO Last week cut-flower business wound up quite satisfactorily, considering amount of stock handled. Kaiserin and other select roses were in demand, Beauties excepted. Carnations were in oversupply early in the week. Roses of poor quality flooded the market, and are disposed of with difficulty. Candelium lilies have sold well, but as the supply increases will now undoubtedly find a slower market and lower values.

CHICAGO There does not appear to be any doubt that the conditions in the trade have settled to the summer pace, and that, allowed to have its natural course, the trade tendency will be toward a lower level of prices. Light receipts of choice American Beauties have enabled growers to maintain a good price on extra quality equal to the top price paid last week. The new cut is already offered and is in fair proportion to the total supply. Bride and Bridesmaid roses are very small and soft and good quality easily commands above quoted prices. A heavy cut of Liberty is on but prices rule firm. Kaiserin is depended on where something choice is wanted; supply and demand hold at even stages. Carnations from inside will soon be at an end. White has experienced a good demand; the supply is continually growing lighter. Sweet peas have declined, due to the heavy offerings; the enormous supply did not serve to enliven the demand. The drop in Lilium candidum occurred the past week occasioned by heavy consignments. Peonies are becoming more conspicuous by their scarcity than by their presence and sales above \$6.00 occur often. Lily of the valley is a shortage. Asters have put in their appearance and gladioli are next in line. Extra quality ferns are offered by our advertisers. Green goods are selling slow.

CINCINNATI Very little can be said of both trade and stock at the present writing. Summer lilies are now putting in their appearance. Gladioli continue to arrive in good quantities and sell well. Some good roses have been seen in the wholesale houses, but the majority of them, as also carnations, are not very good.

LOUISVILLE Business last week was very slack; however not much to our surprise, the weather being very warm, and stock showing it a great deal. Carnations are down in quality and the sale is not very encouraging. The same can be said of roses. Lobes and sweet peas sell well, but they are very hard to get in quantities.

NEW YORK The spurt which occurred during last week was over by Saturday, and to-day, Monday, no trace of activity can be discerned. The market is over supplied with everything, including American Beauties, and the smaller varieties, carnations, sweet peas, lilies, and green stock, and little demand for any part of it. The flower buying public is out of town for the holidays.

PHILADELPHIA Considering the season of the year business was fairly good the past week. The demand was good for all kinds of carnations and roses. Summer Beauties from outside points were of fine quality and helped to brighten up what is usually a poor situation in midsummer. Some fine Prosperity carnations were around but the bulk of the stock was of inferior size. Dahlias have made their appearance in limited quantity. Water lilies are in demand, but supply seems to be rather limited in this market at present. Good sweet peas are not over plentiful but they do not bring much even when good. There is any quantity of rubbish around—unsalable. Gladioli from the South are of good quality and bring fairly remunerative figures.

BUSINESS CHANGES

George V. Smith has removed his florist business to 2118 Madison avenue, Baltimore, Md.

John N. Weston has surrendered his lease of the greenhouses he has been occupying at Reading, Mass., and will build houses in the fall on new premises.

A. Van Leeuwen, Jr., of Franklin, Mass., has sold his interest in the Continental Nursery to his father and brother, and will retire from business for the present.

Albert Fuchs has sold out his retail business at 2054 Clarendon avenue, Chicago, to Henry Korop, who was until recently connected with Sheridan Park Floral Co. There are two conservatories connected with the store.

NEWS NOTES

Tewksbury, Mass., suffered severely from the effects of a violent storm of hail and wind on June 26. The tower, tank, and windmill of John Gale were wrecked and A. Roper lost considerable glass in his houses as well as the windmill and roof of his tower. Many trees were blown down.

A. A. Hixon, of Worcester, was the victim on Wednesday last, of a swindler who wanted some flowers and played the time-worn trick of taking a portion of the order himself and ordering the balance (for a wedding) to be sent with him, to a fictitious address. The funniest part of the incident is the confession of the reporter of the *Worcester Telegram* that he had walked about 20 miles and ridden 25 in an effort to find the "George Wilson" whose sister was to be married that day!

WANTS

Advertisements under this heading are not read. Initials count as words. Call by letter. One insertion free to any gardener or artist seeking a situation.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

BUSINESS MANAGER WANTED.—Inventor to manage branch office and superintendence of salesmen. BIG MONEY! Experience unnecessary. No canvassing. Can be handled with other work or business. References. Particulars on application. C. KNIGHT, A. BOSTWICK, Nurserymen, Newark, New York.

INVESTMENT WANTED.—Hollander, whose business brings him to the States, desires to invest substantial amount not exceeding 30,000 to 40,000 guilders, in first-class horticultural business, where he can be of service in buying Dutch bulbs and other similar products in Europe. Only first-class houses need reply. Address giving general particulars and appointing interview, A. M. M. care of HORTICULTURE, or Hamilton Place, Boston.

WANTED.—Young man to take charge of carnation houses. Most furnish references. Situation will be open September 1st. Address V. care of HORTICULTURE, or Hamilton Place, Boston.

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Wash agent, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN. 39 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. O. Siggers receive special notice, without charge, in every

INVENTIVE AGE

Illustrated monthly—Eleventh year—Terms, \$1. a year.

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The Business Value of a High Grade

SIGN

Cannot be overestimated. Send for Catalogue No. 30. Raised and Sunbatter Signs and TABLETS. Also Time Saving Devices, Badges, Checks, etc.

N. STAFFORD CO.

67 Fulton Street, NEW YORK

In writing to advertisers, mention HORTICULTURE

FRESH IMPORTATION OF

Cattleya Trianae and Gigas

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Thomas Jones, Short Hills, N.J.

New Crop Beauties

THE BEST COMING TO
PHILADELPHIA

THE LEO NIESSEN CO.

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1217 Arch St., - PHILADELPHIA

After July 1st Store Open 7 A. M. to 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

SUMMER BEAUTES AND KAIZERINS

Samuel S. Pennock

The WHOLESALE
FLORIST OF PHILA.

Commencing, June 26th will close at 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers

BOSTON'S BEST
ALL VARIETIES

SHIPPED TO ALL POINTS

Florists' Supplies

Largest Stock in New England
Lowest Wholesale Rates

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"THE OLD RELIABLE"

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FINEST QUALITY

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Flowers Needed? Too Busy to go to Market? Then Order from Any of the Advertisers on These Pages. Mention HORTICULTURE.

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WHOLESALE 1432 So. Penn. Sq. PHILA.
FLORIST

CARNATIONS

Sweet Peas, Lilies of the Valley

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO JULY 4	ST. LOUIS JULY 3	PHILA. JULY 5	BOSTON JULY 6
ROSES				
Am. Beauty, Fan. & Sp.	30.00 to 32.00	to	25.00 to 30.00	15.00 to 20.00
Extra	25.00 to 30.00	to	15.00 to 20.00	12.00 to 15.00
No. 1	15.00 to 20.00	to	12.50 to 15.00	4.00 to 8.10
Lower grades	2.00 to 5.00	3.00 to 10.00	4.00 to 8.00	50 to 2.00
Bride & 'Maid—Fan. & Sp.	5.00 to 6.00	to	8.00 to 10.00	4.00 to 5.00
Extra	4.00 to 5.00	to	6.00 to 8.00	2.00 to 3.00
No. 1 and Lower gr.	1.00 to 3.00	2.00 to 5.00	2.00 to 5.00	50 to 2.00
Liberty, Fancy & Special	8.00 to 10.00	to	8.00 to 12.00	8.00 to 10.00
extra	7.00 to 8.00	to	6.00 to 8.00	6.00 to 8.00
No. 1	5.00 to 6.00	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00
Meteor	1.00 to 4.00	to	to	2.00 to 6.00
Carnot and Kaiserin	2.00 to 8.00	to	4.00 to 8.00	4.00 to 8.00
Golden Gate	5.00 to 6.00	to	6.00 to 8.00	3.00 to 4.00
Ivory	3.00 to 4.00	4.00 to 5.00	3.00 to 5.00	2.00 to 3.00
Medium	3.00 to 4.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Chatenay	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Culls	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
CARNATIONS				
Fancy Class	2.00 to 2.50	to	1.50 to 2.00	1.00 to 1.50
General Class	.75 to 2.00	to	1.00 to 1.50	.15 to .50
ORCHIDS				
Cattleyas	50.00 to 60.00	to	to 60.00	to
BULBOUS				
Lilies	8.00 to 10.00	to	to	to
Lily of the Valley	3.00 to 4.00	to	3.00 to 4.00	3.00 to 4.00
Stocks	1.00 to 2.00	to	to	1.00 to 2.00
Daffodils	to	to	to	to
Callas	6.00 to 8.00	to	to	to
MISCELLANEOUS				
Mignonette	.75 to 1.50	to	to	1.00 to
Sweet Peas	.20 to .50	to	.25 to .50	to .50
Adiantum Cuneatum	.25 to .50	to	to	.75 to 1.00
Crowneum	to	to	1.25 to 1.50	to 1.50
Farleyense	to	to	to	to
Smilax	10.00 to 12.50	to	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	25.00 to 35.00	to	35.00 to 50.00	35.00 to 50.00
bunches	15.00 to 25.00	to	25.00 to 50.00	35.00 to 50.00
" Sprengerii	15.00 to 25.00	to	25.00 to 50.00	25.00 to 35.00
Gardenias	to	to	to	to
Paeonies	5.00 to 8.00	to	to	to

PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSON STREET, PHILADELPHIA

KAIZERIN, CARNATIONS, SWEET PEAS

Store Closes at 6 P. M. from June 19th to Sept. 16th Daily except Saturday at 1 P. M.

In writing to advertisers, kindly mention HORTICULTURE

EVERYTHING IN CUT FLOWERS

OUR MOTTO } GOOD (STOCK
TREATMENT
(PACKING)

EDWARD REID
1526 RANSTED ST. - PHILADELPHIA

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CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment From 40 to 60 Growers

We can and will take care of your Cut Flower and Supply Wants to advantage
E. F. WINTERSON CO. 45-47-49 WABASH
CATALOGUE FREE

PETER REINBERG WHOLESALE

CUT FLOWERS

51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

PHILADELPHIA NOTES

S. S. Pennock has been on a vacation in Rhode Island for the past week.

A change has taken place in the firm of Leo Niessen Company in the withdrawal of Mr. McKissick.

Violet growers in this vicinity are complaining of the dry weather. K. Eisenhart states that he has lost half of the twenty thousand Princess of Wales he had planted out. That variety is one of the hardest to bring through according to Mr. Eisenhart's experience. The double varieties are thriving all right.

PHILADELPHIA SPORTING NOTES

Admiral Cartledge of the Tacony Yacht Club leaves on the 16th inst. for Marblehead, Mass., on his yacht *Emily* with a number of officials and invited guests.

A series of five matches, two on home and three on outside alleys has been arranged by the Florists' Club for the purpose of selecting a team for the convention. The first match will take place at the club room alleys on July 6. Fourteen players have qualified.

The Florists Gun Club team has come out victorious in the League contest and now holds the championship cup for Philadelphia and vicinity. They lost but one out of eighteen matches. They are easily the strongest shooting organization in this vicinity—if not in the country.

CHICAGO NEWS NOTES

Wieland & Risch are cutting Rose Wellesley in fine form.

Visitors; Chas. Hammer, Lake Geneva, Wis., Wm. Edlefsen, Milwaukee.

Lobelia tennior can be seen in flower with Alois P. Frey, at Lincoln Park.

C. W. Erne, salesman for E. H. Hunt, is on a vacation to Terre Haute, Ind., and Michigan.

Fred Nelson, manager retail dept., of Geo. Wittbold Co., is visiting at his home in Galesburg, Ill.

Geo. Wittbold Co., is increasing the office quarters, an office building 36x20 is being erected, a private telephone exchange has been installed connecting all departments with long distance telephones.

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 23th Street, New York

In writing advertisers, mention HORTICULTURE

GEO. H. COOKE
FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

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4326-28
OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 076

ROSES

AS A LEADER we offer *UNCLE JOHN*, the Improved Golden Gate, color far superior and better shaped flower, in 3-inch pots at \$2.50; 2-in at \$1.50 per 1000.

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy

	100	1000
Uncle John, 3½-inch, \$3.00	\$25.00	
Uncle John, 2-inch, 2.00	15.00	
Bridesmaid, 2-inch, 2.50	20.00	

American Beauty (Bench Plants) \$25.00 per 100; \$250.00 per 1000

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Layson (Pink)	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Layson Market	Crusader	Harry Fenn	Triumph	Guardian Angel
	Roosevelt		Mrs. Inc	

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Prices furnished upon application, also when writing kindly state when stock is wanted, we guarantee all stock to be in A1 CONDITION.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and WHOLESALE Cut Flowers
CARNATIONS GROWER of
A SPECIALTY....

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FANCY OR DAGGER FERNS



New Crop, No. 1 stock only 75c. per 1000. Fine quality laurel blossoms, 7½" four pink shades, 50c. per large bundle. Galax, brilliant blonde or green, 75c. per 1000; \$8.50 per case, 10000. Laurel festooning, hand made, full sizes, 4c., 5c. and 6c. per yard, made fresh daily from the woods. Send us your orders at once and we will please you. Branch Laurel, 5c. per large bundle, 50c. per case, \$5.00 per case. Laurel wreaths and Prince pine wreaths made all sizes and prices. Princess pine by the pound and made into roping. Tell us your wants and we will name you prices.

CROWL FERN CO. - - - MILLINGTON, MASS.

BALTIMORE LOCALS

Cardinal, one of Mr. Cook's productions is now in great demand in this market.

Charles F. Feast, with his mother, Mrs. J. E. Feast, have returned to their homes after a ten days sojourn at Atlantic City.

John Cook has just completed the erection of a new greenhouse, 30x160, to be used in the growing of the new rose "Madonna," which is to be put upon the market the coming fall.

John H. Langton, the new manager of the Hotel Belvedere, has inaugurated the New York custom of placing large and stately palms about the lobby corridors, and dining rooms, and Feast & Sons were awarded the contract for furnishing same.

Among the fortunate folk who have sailed for "the other side" are Miss M. M. Dawson of Eastern Nurseries, who sailed from New York last Saturday, J. A. Pettigrew and G. Harbison on the *Republic* from Boston, Thursday, July 6; W. R. Smith from New York, July 6, and A. Leuthy from New York, July 8. T. D. Hatfield is booked to sail from Boston, July 12. There are still a few good men left on this side, however.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters. Block Letters, 140r 2 1/2 inch size, per 100, \$2. Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCARTHY, Treas. and Manager
84 HAWLEY ST., BOSTON, MASS.

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

FRANK MILLANG

Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York

Tel. 290 Madison Sq. Open 6 A.M. to 5 P.M.
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FANCY FERNS

\$1.00 PER 1000 Discount on regular shipments

Michigan Cut Flower Exchange

WM. DILGER, Manager

WHOLESALE FLORISTS
38 AND 40 MIAMI AVE., DETROIT, MICH.
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FORD BROS.

48 West 28th Street, New York

Fine Roses

Fancy Carnations

A full line of all CUT FLOWERS

Telephone, 3870 or 3871 Madison Square

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Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS

A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices

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Consignments received, sold well and returns made promptly

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Florists' Supplies and Letters

34 Hawley St. - BOSTON

WM. GHORMLEY

WHOLESALE COMMISSION FLORIST

57 West 28th St., New York

FINEST ROSES ALL VARIETIES

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones { 2200 } Madison
 { 2201 } Square

Write for Current Prices

In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—to DEALERS ONLY

	Last Half of Week ending July 1 1905	First Half of Week beginning July 3 1905		Last Half of Week ending July 1 1905	First Half of Week beginning July 3 1905
ROSES					
Am. Beauty, fan. and sp.	12.00 to 25.00	10.00 to 20.00			
" extra	6.00 to 10.00	5.00 to 8.00			
" No. 1	3.00 to 5.00	3.00 to 5.00			
" Lower grades	.50 to 2.00	.50 to 1.00			
Bride & Maid, fan. and sp.	4.00 to 6.00	3.00 to 5.00			
" extra	3.00 to 4.00	2.00 to 3.00			
" No. 1 and Lower gr.	1.00 to 3.00	.50 to 2.00			
Liberty, fan. and sp.	10.00 to 15.00	10.00 to 15.00			
" extra	10.00 to 15.00	10.00 to 15.00			
" No. 1	10.00 to 15.00	10.00 to 15.00			
Metrol	10.00 to 15.00	10.00 to 15.00			
Jacq	10.00 to 15.00	10.00 to 15.00			
Brunner	10.00 to 15.00	10.00 to 15.00			
Carnot and Kaiserin	1.00 to 6.00	1.00 to 6.00			
Golden Gate } Best	10.00 to 15.00	10.00 to 15.00			
Ivory } Medium	10.00 to 15.00	10.00 to 15.00			
Chatenay } Culls,	10.00 to 15.00	10.00 to 15.00			
CARNATIONS					
Fancy Class	2.00 to 2.50	1.25 to 2.00			
General Class	1.00 to 2.00	.50 to 1.25			
ORCHIDS					
Cattleyas	25.00 to 50.00	25.00 to 50.00			
Cypripediums	25.00 to 50.00	25.00 to 50.00			
BULBOUS					
Lilies	4.00 to 5.00	3.00 to 4.00			
Lily of the Valley	1.00 to 2.00	1.00 to 2.00			
Callas	10.00 to 15.00	10.00 to 15.00			
MISCELLANEOUS					
Mignonette	10.00 to 15.00	10.00 to 15.00			
Sweet Peas, bunches	2.00 to 6.00	1.00 to 3.00			
Adiantum Cupatum	10.00 to 15.00	10.00 to 15.00			
" Croweanum	10.00 to 15.00	10.00 to 15.00			
" Farleyense	10.00 to 15.00	10.00 to 15.00			
Smilax	6.00 to 8.00	6.00 to 8.00			
Asparagus Plumosus, strings	20.00 to 35.00	10.00 to 20.00			
" bunches	15.00 to 25.00	10.00 to 20.00			
" Sprengeri	8.00 to 12.00	10.00 to 15.00			
Gardenias	10.00 to 15.00	10.00 to 15.00			
Lilacs, bunches	10.00 to 15.00	10.00 to 15.00			
Paeonies	10.00 to 15.00	10.00 to 15.00			

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 23th Street - NEW YORK

In writing to advertisers, mention HORTICULTURE

ALEX. MCCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 33th St.

Cable Address, ALEXCONNELL

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John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
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High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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WHOLESALE FLORISTS

55 and 57 W. 26th St. NEW YORK

Cut Flower Exchange. Tel. 830 Madison Square

OPEN 6.00 A.M.

AN UNEQUALED OUTLET FOR CONSIGNED FLOWERS

The only house handling the New Red Carnation

To be disseminated 1906. Also a complete line of choicest flowers.

ALEX. J. CUTTMAN

WHOLESALE FLORIST

292 WEST 25TH ST. NEW YORK

Telephones 1664-1665 Madison Square.

Edward C. Horan**Wholesale Florist**

55 WEST 28th ST.

Tel. 1462 1463 Madison Sq. New York

JAMES A. HAMMOND

Wholesale Commission Florist

113 W. 30th St., NEW YORK CITY

Tel. 854 Madison Sq.

Consignments receive conscientious and prompt attention. Highest market price guaranteed.

The finest stock in the market always on hand

A. L. YOUNG & CO.

Wholesale Florists

Shipping orders supplied with selected Flowers

at reasonable prices. Send for circular.

54 W. 28th St., NEW YORK

Tel. 3550 Madison Square

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Importers and Manufacturers of

FLORISTS' SUPPLIES

Galley Leaves and all Decorative Greens

Agents for CALDWELL'S PARROT BRAND WILD SILEX

In writing to advertisers mention HORTICULTURE

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...MANUFACTURERS OF...

Folding Flower Boxes

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Write for Price List and Samples

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American BEAUTES
AND
QUEEN OF EDGELYS**WELCH BROS.**

City Hall Cut-Flower Market

157 PROVINCE ST., BOSTON

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Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.

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The RELIABLE HOUSE
JOSEPH S. FENRICH

Wholesale Florist

Consignments Solicited

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Telephone No. 325 Madison Square.

Headquarters in Western New York for

Roses
Carnations

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist

Also Dealer in Florists' Supplies

and Wire Designs

383-87 Ellicott St., Buffalo, N.Y.

GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS
AND ROSES**Pittsburg Cut Flower Co., Ltd**

504 Liberty Ave., Pittsburg, Pa.

In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE AND COMMISSION FLORIST

115 West 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

OUR FLOWERS

Are the product of establishments that CAN BE DEPENDED UPON to supply blooms of unequalled quality EVERY DAY IN THE YEAR.

We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 23th St. New York City

Telephones, 798-799 Madison Square

WHOLESALE FLOWER MARKETS

TRADE PRICES Per 100 — TO DEALERS ONLY

	CINCINNATI July 5	BALTIMORE July 5	BUFFALO July 5	PITTSBURG July 5
ROSES				
Am. Beauty, fan, and sp.	20.00 to 24.00	to	20.00 to 25.00	20.00 to 25.00
" extra	15.00 to 18.00	15.00 to 18.00	12.00 to 20.00	12.00 to 18.00
" No. 1	10.00 to 12.00	9.00 to 11.00	7.00 to 12.00	5.00 to 10.00
" Lower grades	6.00 to 8.00	4.00 to 6.00	2.00 to 6.00	2.00 to 3.00
Bride & Maid, fan and sp	4.00 to 5.00	4.00 to 5.00	5.00 to 7.00	to 8.00
" extra	5.00 to 6.00	5.00 to 6.00	4.00 to 5.00	to 6.00
" No. 1 and Lowergs.	1.50 to 2.00	1.50 to 3.00	2.00 to 4.00	2.00 to 4.00
Liberty, fan, and sp	to 5.00	to 5.00	to	12.00 to
" extra	5.00 to 6.00	5.00 to 6.00	5.00 to 7.00	8.00 to
" No. 1	to 2.00	to 2.00	2.00 to 3.00	4.00 to
Meteor	to	2.50 to 4.00	to	to
" extra	to	to	to	to
" No. 1	to	to	to	to
Carnot and Kaiserin	to	2.50 to 5.00	4.00 to 7.00	1.00 to 12.00
Golden Gate Best	to 5.00	to 6.00	to	to 8.00
Ivory	3.00 to 4.00	4.00 to 5.00	to	to 8.00
Chatenay Culls	to 2.00	to 2.50	to	to 2.00
Killarney	to	to	to	to
CARNATIONS				
Fancy Class	1.50 to 2.00	to	1.50 to 2.00	to 2.00
General Class .....	.50 to 1.00	.50 to 1.00	.75 to 1.50	.75 to 1.50
ORCHIDS				
Cattleyas	to	to	to	to
Cypripediums	to	to	to	to
BULBOUS				
Lilies	10.00 to 12.50	9.00 to 12.00	to	12.50 to 15.00
Lily of the Valley	3.00 to 4.00	to	3.00 to 4.00	2.00 to 4.00
#Stocks	to	to	to	to
Daffodils	to	to	to	to
Tulips	to	to	to	to
Callas	6.00 to 8.00	to 7.00	to	to
MISCELLANEOUS				
Mignonette	to	to	to	to
Sweet Peas	15 to 30	20 to 30	15 to	to
Adiantum Cuneatum	to 1.00	to 1.00	to 1.00	to 1.00
" Crownatum	to 1.50	to 2.00	to 1.00	to 1.25
" Fairyleense	to	to	to	to
Smilax	10.00 to 12.50	1.00 to 15.00	10.00 to 15.00	10.00 to 15.00
Asparagus Plumosa, strings	to 50.00	to	40.00 to 50.00	20.00 to 50.00
" bunches	to 25.00	to	20.00 to 25.00	15.00 to 40.00
" Sprengeri	25.00 to 35.00	to 50.00	20.00 to 25.00	15.00 to 50.00
Gardenias	to	to	to	to
" filar bunches	to	to	to	to
Ponies	to	to	to	to

List

Advertisers

Buyers' Directory

Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line.
Regular advertisers in this issue are also listed
under this classification without charge. Reference to
List of Advertisers will indicate the respective pages.

Page	Page
Aschmann G. 28	Millang Charles 47
Baker Wm. J. 41	Miner John C. 50
Bambrick Thos. H. 43	Mo. Jack L. 29
Barrows H. H. 43	Murdoch J. B. 47
Baur Floral Co. 29	
Bayersdorfer H. & Co. 45	Niesen Leo Co. 44
Boas W. J. & Co. 47	Peacock L. K. 29
Boddington A. T. 26	Pennock Samuel S. 40
Bonnot Florist 47	Percy Chas. W. 50
Boston Florist Letter	Perkins John J. 47
Co. 45	Pierston F. R. Co. 26
Breck Joseph & Sons	Pierston-Sefton Co. 52
Co. 45	Phil. Cut Flower Co. 44
Breitmeyer's J. Sons	Pittsburg Cut Flower
Budling J. A. 30	Co. 47
Burpee W. A. & Co. 30	Pittsburgh Rose and
	Carnation Co. 29
Chandler B. B. & E. J. 51	Poehlmann Bros. Co. 26
Chicago House Wreck-	Pye R. C. 29
ing Co. 50	
Chicago Carnation	
Co. 29	Rawson W. W. & Co. 30
Clucas & Roddington	Raynor John I. 46
28	Reed & Keller 28
Cook G. H. 47	Reid Edward 44
Coolidge Bros. 28	Reinberg Peter 44
Cottage Gardens 29	Robinson H. M. &
Crowl Fern Co. 45	Co. 44
	Rohrer Julius 28
Dilger Wm. 46	Rucker August 28
Dreer H. A. 30	Ruston Liberal Nur-
Dysart R. J. 28	series Co. 29
Elliott Wm. & Son. 29	Safety Automatic Ven-
Eiler J. G. 50	tilating & Heating
Ernest W. H. 50	Co. 51
	Sander & Sons 28
Farguhar R. & J. 30	Schillo Lumbar Co. 50
Co. 30	Scollay John A. 51
Fenrich J. S. 47	Scott John 28
Fletcher F. W. 29	Sharp Partridge & Co.
Ford Bros. 46	Co. 50
Fronow W. & Sons 29	Sheridan W. F. 46
	Siehrrecht & Sons 26
Ghormley Wm. 46	Sievers J. H. & Co. 26
Gray T. J. & Co. 30	Siggers E. G. 43
Gurney Heating Mfg.	Skidley S. S. 29
Co. 51	Stafford N. Co. 43
Guttman Alex. J. 47	Steans A. T. Lumber
	Co. 50
Hall Asso. 50	Sutherland Geo. A.
Hammond J. A. 47	Co. 46
Herendine Mfg. Co. 51	Co. 46
Hews A. H. & Co. 50	Sunka & Lida 28
Hitchings & Co. 52	Sylvester H. H. 50
Horan E. C. 28	Situations & Wants. 43
Hunt E. H. 28	
Johnston Heating Co. 50	Thorburn J. M. Co. 30
Johnson & Stokes 30	Freundlich & Schenk
Jones Thoma. 43	Co. 26
Kasting W. F. 47	Vaughan and Sperry
King Construction Co. 51	Co. 30
Kloeker A. 51	Waldh M. H. 29
	Ward Ralph M. Co. 30
Lager A. Hurrell 28	Watson G. C. 30
Lang Julius 46	Weber F. C. 45
Lehning & Winnfield 29	Weber H. & Sons 29
Leuthy A. & Co. 28	Welch Bros. 47
Lord & Burnham Co. 52	Weiland & Reich 47
	Wietor Bros. 28
Metropolitan Material	Winterich C. 28
Co. 51	Winterson E. F. 44
McCarthy N. F. & Co. 44	
McConnell Alex. 46	Yalaha Conservatories 28
McKellar Charles W. 44	Young & Nugent 45
Michell H. F. 30	Young John H. 46
Michigan Cut Flower	Young A. L. & Co. 47
Exchange 46	Zangisiel D. 29

ENGLISH IVY.
The F. W. Fletcher Co., Auburndale, Mass.

FERNES.
A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.
H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 & 40 Miami Ave.
Detroit, Mich.
Faint Ferns
For page see List of Advertisers.

Vaughan & Steere, 60 Wabash Ave., Chicago.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Pinnatifida

FERTILIZERS.

W. Elliott & Sons, New York.
Fertusian Guano.
For page see List of Advertisers.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Bone Meal and Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Ltd., 34 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Ltd., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.
Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot Aves.,
Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 43 W. 28th St., New York
For page see List of Advertisers

George H. Cook, Washington, D. C.
For page see List of Advertisers

FLOWER POTS.

W. H. Ernest, 28th and Mt. Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GARDENIA VEITCHII.

A. T. Boddington, 312 W. 14th St., New York.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 224 and Union Place, Chicago.
For page see List of Advertisers.

George C. Watson, 1614 Ludlow St., Phila.
For page see List of Advertisers

GLAZING POINT.

H. A. Dreer Philadelphia, Pa.
For page see List of Advertisers

B. B. & E. J. Chandler, Hyde Park, Mass.
For page see List of Advertisers.

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THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country

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Lord & Burnham Co., Irvington-on-Hudson, N. Y.

See outside cover page.

Chicago House Wrecking Co., Chicago, Ill.

For page see List of Advertisers.

Pierson-Setton Co., West Side Ave., Jersey City, N. J.

See outside cover page.

Hitchings & Co., 233 Mercer St., New York, N. Y.

See outside cover page.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

King Construction Co., N. Tona-wanda, N. Y.

For page see List of Advertisers.

Safety Auto V. & H. R. Co., Lake George, N. Y.

Greenhouse Ventilators.

For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk St., Chicago.

For page see List of Advertisers.

Adam Schillo Lumber Co.,

Weed St. and Hawthorne Ave., Chicago, Ill.

For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston

For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston

For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.

For page see List of Advertisers.

HARDY HERBACEOUS PLANTS.

M. H. Walsh, Woods Hole, Mass.

For page see List of Advertisers.

HELP.

Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.

For page see List of Advertisers.

HEATING APPARATUS.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.

See outside cover page.

Pierson-Setton Co., West Side Ave., Jersey City, N. J.

See outside cover page.

Hitchings & Co., 233 Mercer St., New York.

See outside cover page.

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.

For page see List of Advertisers.

Heredend Mfg. Co., Geneva, N. Y.

For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.

For page see List of Advertisers.

Johnston Heating Co., St. James Bldg., New York.

For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York

Plants tender or hardy.

For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs

For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

LAUREL FESTOONING.

Crowl Fern Co., Millington, Mass.

For page see List of Advertisers.

LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.

For page see List of Advertisers.

LILY BULBS.

J. M. Thorburn & Co.,

36 Cortlandt St., New York

For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

MASTICA.

Joseph Breck & Son, Boston.

For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St., New York

Pure Culture Spawners.

For page see List of Advertisers.

NICOTIANA SANDERÆ.

H. A. Dreer, Philadelphia.

For page see List of Advertisers.

J. M. Thorburn & Co., New York

For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.

For page see List of Advertisers.

ORCHID PLANTS.

Liger & Hurrell, Summit, N. J.

Cattleya Smothers.

For page see List of Advertisers.

Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists

For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.

For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.

For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.

For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.

For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.

For page see List of Advertisers.

PLANT STAKES.

H. F. Michell Co., 1013 Market St., Philadelphia.

RETAIL FLORISTS.

Alex. McConnelly, New York

For page see List of Advertisers.

Thomas Young, Jr., New York.

For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.

For page see List of Advertisers.

J. Breitmeier's Sons, Detroit, Mich.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.

For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.

Hardy Roses. H. T. Roses and Ramblers

For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.

English Crown Roses.

For page see List of Advertisers.

Rose Killamey, Siebrecht & Son, New Rochelle, N. Y.

For page see List of Advertisers.

Pochmann Bros. Co., Morton Grove, Ill.

Young Roses.

For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.

For page see List of Advertisers.

Baur Floral Co., Erie, Pa.

For page see List of Advertisers.

Pittsburg Rose & Carnation Co., Gibsonia, Pa.

Young Stock.

For page see List of Advertisers.

J. C. Hatcher, Amsterdam, N. Y.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.

For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston.

For page see List of Advertisers.

Joseph Breck & Son,

51 & 52 N. Market St., Boston

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia

For page see List of Advertisers.

Johnson & Stokes, 217-19 Market St., Philadelphia.

Giant Pansy Seeds.

For page see List of Advertisers.

J. M. Thorburn & Co.,

36 Cortlandt St., New York

For page see List of Advertisers.

Dennis Armstrong, New York, N. Y.

Zingibell Giant Pansy.

For page see List of Advertisers.

SEEDS, Continued.

R. & F. Farnham & Co., 6 & 7 S. Market St., Boston

Hardy Perennial Flower Seeds.

For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany.

Established 1789. High, large Grass, Clover and Tree Seeds.

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Fulton St., New York.

For page see List of Advertisers.

SPRAYING ENGINES.

Chas. W. Percy, 212 Summer St., Boston.

For page see List of Advertisers.

STEAM TRAP.

E. Huppard, Youngstown, O.

VENTILATING APPARATUS.

Hitchings & Co., 233 Mercer St., New York

See outside cover page.

Pierson-Setton Co., West Side Ave., Jersey City, N. J.

See outside cover page.

Lord & Burnham Co., Irvington-on-Hudson, N. Y.

See outside cover page.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 412 Hawthorne Ave., Chicago.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

George A. Sutherland Co., 31 Hawley St., Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.

J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 75-78 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.

Peter Keimig, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Weiland & Risch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 50 Wabash Ave., Chicago.

E. F. Winterston Co., 45, 47, 49 Wabash Ave., Chicago.

New York.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 26th St., New York

Jos. S. Fenrich, 43 West 30th St., New York.

Ford Bros., 48 West 28th St., New York.

Wm. Ghorghie, 57 W. 28th St., New York.

Alex. J. Guttman, 52 West 28th St.

Jas. A. Hammond, 113 West 30th St., New York

E. C. Horan, 55 West 28th St., New York.

Julius Lang, 52 West 30th St., New York.

Chas. Milling, 50 West 28th St., New York.

Frank Milling, 55-57 W. 26th St., New York.

John J. Perkins, 115 West 30th St., New York.

John J. Raynor, 49 West 28th St., New York.

W. F. Sheridan, 39 West 28th St., New York.

Trenardy & Schenck, 44 W. 28th St., New York.

A. L. Young & Co., 54 West 28th St., New York.

Pittsburgh.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.

Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.

S. S. Penock, 12-12 18 Ludlow St., Philadelphia, Pa.

Phila. Cut Flower Co., 1516-18 Sanson St., Phila., Pa.

Eid. Reid, 1526 Ransdell St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pitts-

burg.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue**CATTELYA TRIANE AND GIGAS.**

Thomas J. Grey, Short Hills, N. J.

For page see List of Advertisers.

The F. W. Fletcher Co., Acornville, Pa.

For page see List of Advertisers.

HYDRANGEAS FOR SUMMER BLOOMING.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

For page see List of Advertisers.

NEW SPAGNUM.

H. M. Robinson & Co., Boston.

For page see List of Advertisers.

PANSY SEED.

H. F. Michell Co., 1013 Market St., Philadelphia.

For page see List of Advertisers.

ROSES, ASPARAGUS, FERNS.

Kuxton Floral & Nursery Co., Kuxton, Md.

For page see List of Advertisers.

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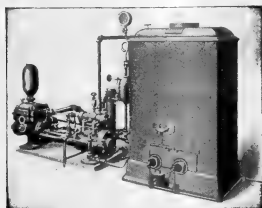
GREENHOUSE MATERIAL

OF EVERY DESCRIPTION

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO.

In writing to advertisers kindly mention HORTICULTURE

THE SHIPMAN OIL-BURNING AUTOMATIC STEAM PUMPING OUTFIT



Will do any pumping, under any conditions, portable or stationary. Requires no attention, automatic in fuel consumption, in water feed and in steam delivery. Exhaust steam can be used to temper manure water. Insurance not affected by its use.

CAN YOU AFFORD TO RUN YOUR GREENHOUSES WITHOUT IT?
For illustrated catalogue and further information, write to:

Chas. W. Percy
Mfr Shipman Automatic Engines
212 Summer St., Boston, Mass.

Advertising well placed hits the nail on the head every time. Let us help you to make business good.

INSURE YOUR GLASS
in the FLORENCE HALL ASSOCIATION OF AMERICA.
DO IT NOW
'tis too late when you are hit. For particulars address
JOHN G. ESLER, Saddle River, N. J.

SPECIFY THE BOILER you want and we will give you a figure on the entire apparatus erected or on material only

JOHNSON HEATING CO., 1133 BROADWAY, St. James Building NEW YORK

H. H. SYLVESTER

Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work
a Specialty
In writing to advertisers, mention HORTICULTURE



In writing advertisers, mention HORTICULTURE

SALE OF BOILER TUBES

Sixteen carloads of fine 4-inch tubes, suitable for use of Greenhouse-men and Florists. They are rattled and are heavy tubes, just what you need. We can make quick delivery. We will quote you prices if you will advise us how many you can use. We advise purchasing in carload lots, as we can make extremely low prices in quantities.

In addition to the above, we have for sale everything in the way of Supplies such as you are using.

Wrought Iron Pipe, sizes from 3/8 inch to 14 inch.

Boiler Tubes, sizes from 1 3/4 to 8 inch.
50 Horizontal Tubular Boilers from 10 to 200 H. P.

1,000,000 Sq. Feet of Sash from the St. Louis World's Fair.

Lumber, Garden Hose, Etc.
ASK FOR OUR CATALOGUE NO. 554
CHICAGO HOUSE WRECKING CO.
35th and Iron Sts., Chicago

In writing to advertisers, mention HORTICULTURE

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.
NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

Standard POTS
Flower...

If your greenhouses are within 500 miles of the Capital, write us, we can save you money.

W. H. ERNEST
28th and M Streets, WASHINGTON, D. C.
In writing to advertisers, mention HORTICULTURE

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "Pecky Cypress" Position to Furnish

Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES

Adam Schillo Lumber Co.
Cor. Weed St. & Hawthorne, CHICAGO
Tel. North 1626 and 1627

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GLASS

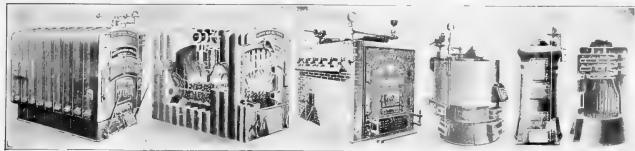
FACTORIES ARE NOW CLOSED for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.
22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

Furman Boilers for Greenhouse Heating



Valuable Catalogue on Modern Steam and Hot Water Heating, mailed free upon request. Address:

The Herendore Manufacturing Company
Dept. H. T., Geneva, N. Y.

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39 Oliver St., BOSTON

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FURMAN BOILERS have been awarded Certificate of Merit at 13 different Florists' Conventions. They have a record of 20 years. Over 25,000 in use.

Selling Agents

EDW. S. DEAN, Bloomington, Ill. E. K. BARR, LaCrosse, Wis.
JAS. SPEAR, S. & H. CO., 1014 Market St., Philadelphia.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs.

BOILERS Second-hand steam, \$15.00; 1 No. 17

Hitchings, \$75.00.

PIPE New 2-in. full lengths, 8 1/2 cts. per ft. Good,

serviceable second-hand, with threads 2 in.,

7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/2 cts.; 1-in., 3 cts.;

2 1/2-in., 10 cts.; 3-in., 14 cts.; 4-in., 19 cts.; castiron,

4-in., 12 cts.

STOCKS AND DIES New No. 1 Threads, 1/2-in.,

1/4-in., 1-in., pipe, \$3.00.

No. 2 Threads, 1 1/2-in., 1 1/4-in., 2-in., pipe, \$4.00.

PIPE CUTTERS New, Hinged, cuts 1-in. to 2-in., pipe,

\$1.00; cuts 1-in. to 2-in., pipe,

\$1.50.

STILLSON WRENCHES New 18-in., grips 1/2-

1/4-in. to 2-in., pipe, \$1.65;

24-in., grips 1/2-in. to 2 1/2-in., pipe, \$2.40;

30-in., grips 1/2-in. to 3 1/2-in., pipe, \$4.75.

PIPE VISES New, Hinged, cuts 1-in. to 2-in.,

pipe, \$2.00.

GARDEN HOSE New, 1/2-in., guaranteed 100-

lbs. pressure, 1/2 cts. per ft.; 3/4-

in., not guaranteed, 4 1/2 cts. per ft.

HOTBED SASH New, Cypress, 1-ft. x 6 ft., from

70 cts. up; glazed, complete,

from \$1.60 up. Second-hand, as good as new, at \$1.25

and \$1.00 each, complete.

GLASS New, American, 50 sq. ft. to the box;

single, 10 x 12, at \$1.75; old 10 x 12 single,

\$1.40. B. Double, 10 x 12 and 12 x 12, at \$2.40; B.

Double, 12 x 14, 14 x 16, 16 x 16 at \$3.50; B. Double,

10 x 20 \$5.00; 10 x 24 at \$5.95 a box.

RADIATORS Steam, as good as new.

WRITE Material, Ventilating Apparatus, Oil,

White Lead, Putty, Points, etc.

METROPOLITAN

MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N.Y.

In writing advertisers, mention HORTICULTURE

SEND FOR

New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

THE PEERLESS REPAIR CLAMP

PATENT APPLIED FOR

To mend cracked Glass immediately. Box of 150 \$1.00

for sale by Jobber or address A. KLOCKER, Wauw-

atosa, Wis. Testimonials and samples free.

Holds Glass Firmly

See the Point at

PEERLESS

Glazing Points are the best.

No rights or lefts. Box of

1,000 points 75 cts. prepaid.

HENRY A. DREER,

116 Chestnut St., Philadelphia.

Automatic Greenhouse VENTILATORS

From \$25.00 up. Send for circular

The Safety Automatic Ventilator and Heat

Regulator Co., Lake George, N. Y.



Scollay **Boilers**

Invincible
—FOR—
Hot Water or Steam

Cast Iron Standard Greenhouse Pipe and Fittings.

Also Fittings and Valves, all sizes, for Wrought Iron Pipe. Genuine Wrought Iron Pipe all sizes.

John A. Scollay

73 & 75 MYRTLE AVE.

Borough of Brooklyn, NEW YORK CITY

Write for Catalogue and Special Prices

MASTICA
FOR Greenhouse Glazing
USE IT NOW.
Joseph Breck & Sons
CORPORATION
AGENTS

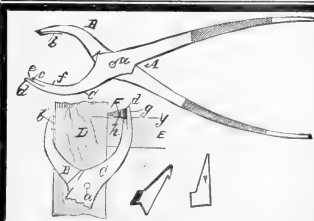
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We are the Manufacturers
Distributing Agents for
Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION

47-54 North Market Street
Boston, Mass.

GURNEY HEATERS
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE, 111 FIFTH AVE.
74 FRANKLIN ST. BOSTON



THE OLD RELIABLE
Chandler Glazing
Point and Pincers

Roofs glazed eighteen years ago are still intact.

Don't glaze until you write for samples and particulars. 300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER
HYDE PARK, MASS.

THE PIERSON-SEFTON CO.
Horticultural Architects and Builders
West Side Ave., JERSEY CITY, N. J.



Exterior view of "U" Bar greenhouse designed and erected for Mrs. O. Thorne, Milbrook, N. Y.

WE MANUFACTURE and ERECT
EVERY TYPE OF
GREENHOUSE

The GALVANIZED "U" BAR TYPE
The FLAT IRON RAFTER TYPE
The SASH BAR TYPE

We make each type in several styles. We also furnish any of the constructions in the ridge and furrow type in any width of span.

WE ALSO MANUFACTURE

Self-locking vent-opening apparatus, both the standard and self-oiling type.
Wood and iron frame benches and tables.
Hot-bed sash and frames.
Special hand-made Greenhouse Putty.
Pipe, Fittings, Valves and everything for Greenhouse Heating.

ESTIMATES FURNISHED FOR COMPLETE STRUCTURES OR MATERIAL READY TO ERECT.

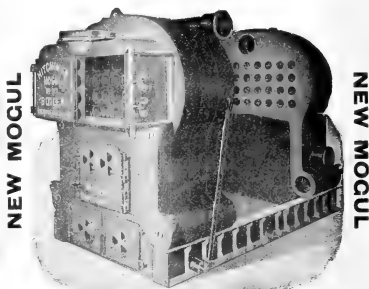


Interior view of "U" Bar greenhouse designed and erected for Mrs. O. Thorne, Milbrook, N. Y.

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HITCHINGS GREENHOUSES
HITCHINGS BOILERS
HITCHINGS VENTILATING

ESTABLISHED 1844



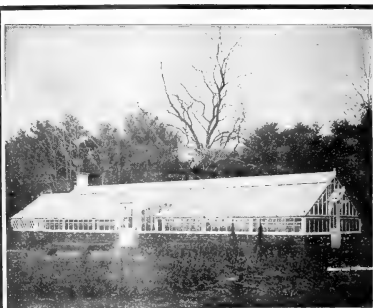
FOR HOT WATER or STEAM
HITCHINGS & CO.

NEW YORK
233 Mercer Street

BOSTON
319 Tremont Bldg.

Send 4 cents for catalogue

In writing to advertisers, kindly mention HORTICULTURE



Designed and erected for Judge W. H. Moore, Prides Crossing, Mass.

Greenhouses, Conservatories,
Rose Houses, Graperies, etc.

GREENHOUSE MATERIALS
VENTILATING APPARATUS
"BURNHAM" BOILERS

Catalogues sent on request.

LORD & BURNHAM CO.

New York Office . . . St. James Bldg., Broadway and 26th St.
General Office & Works . . . Irvington-on-Hudson, N. Y.

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HORTICULTURE

Vol. II

JULY 15, 1905

No. 3



PEONY. LUCY E. HOLT

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

HYDRANGEAS FOR SUMMER BLOOMING

We grow these largely, and have a magnificent stock of large-sized plants in tubs and barrels. Plants are now covered with buds and are just beginning to show color, and will be in full bloom during July and August. These plants are splendid for decoration of the lawn, and are used largely at seaside places and other summer resorts. There is nothing that equals them for summer decoration during July and August.

Fine Plants in tubs, \$2.00 and \$3.00 each according to size.

Very large specimens in half-barrels, \$7.50 each.

These plants can be shipped by freight with perfect safety to any point. We ship large quantities every year as far north as Bar Harbor, Maine.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

In writing to advertisers, kindly mention HORTICULTURE

PANSY SEED

Boddington's "Challenge," a mixture of the choicest strains of 5 leading Pansy specialists of America and Europe. All large flowers of good substance in an infinite variety of color and markings. New Crop Seed ready July.

Trade packet, \$1.00; 1/2 oz., \$2.00; oz., \$5.00

MICNONETTE SEED

Boddington's "Majesty," the finest of all fancy varieties of Micnonette, an improvement on "New York Market." Seed saved only from selected spikes under glass.

Per trade packet of 2000 seeds, \$1.00

Arthur T. Boddington,

Importer Seeds, Bulbs and Plants

342 West 14th St., New York

In writing to advertisers, kindly mention HORTICULTURE

ROSES

	2 1/2-in.	3-in.	3 1/2-in.	4-in.
	Per 100	Per 1000	Per 100	Per 1000
Am. Beauties.....	\$3.00	\$3.00	\$2.00	\$45.00
Chatenay.....	4.00	30.00	5.00	45.00
Claire John.....	4.00	30.00	5.00	45.00
Golden Gates.....	2.50	20.00	4.50	40.00
Ward's.....	3.50	30.00	5.00	45.00
Brides.....			5.00	
Sunrise.....			5.00	
	Per 100	Per 1000	2 1/2-in.	Per 100
Stevia R. C.....	\$1.50	\$12.50	\$2.50	\$22.50

POEHLMANN BROS. CO., Morton Grove, Ill.

In writing to advertisers, kindly mention HORTICULTURE

MY MARYLAND

Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class. Certificate of Merit by the American Carnation Society. Lawson Bronze Medal for 100 blooms and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1906. Price \$2.50 per doz.; \$12 per 100; \$100 per 1000. Write us for other new and standard varieties.

H. WEBER & SONS, Oakland, Md.

In writing advertisers mention HORTICULTURE

Chicago Carnation Co.

JOLIET, ILL.

Our Plants are Now in the Field

Write us for Fall Delivery.

In writing to advertisers, mention HORTICULTURE

S. S. SKIDELSKY

**824 No. 24th St.
PHILADELPHIA**

CORRESPONDENCE SOLICITED

In writing advertisers, mention HORTICULTURE

ROBT. C. PYE

Carnation Grower

NYACK, N. Y.

In writing to advertisers mention HORTICULTURE

If you offer the right goods in the right way in these columns, you will not lack for customers.

ROSES

Ready to bench
BRIDE
BRIDESMAID
IVORY
Fine 3-inch stock

\$5.00 per 100; \$45.00 per 1000; 25 at 100 rate; 250 at 1000 rate. Cash with order or satisfactory references

Baur Floral Co., Erie, Pa.

Advertising well placed hits the nail on the head every time. Let us help you to make business good.

THE COTTAGE GARDENS CO.

INCORPORATED

Horticultural Specialties

Ornamental Nursery Stock Peonies Carnations

C. W. WARD, President. I. C. GOWING, Sec'y and Treas.
Long Distance Telephone: 918 CREEDMOOR

HANNAH HOBART

The grand Prize Winner in competition with the latest and very best products in Carnations, East or West, for the last eight years.

Mr. John A. Palmer, of the Elm, Washington, wrote, after his visit to our nurseries in January, 1905, an article which appeared in the AMERICAN FLOWER GROWER as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different. In this respect it most resembles the old Jubilee, but of course the color is different. I saw two large houses of it at Sievers', and the sight is one long to be remembered; hundreds of blooms and not a poor one in the lot and everyone the exact counterpart of the other; no bursted calyxes. But every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and if needing verification, the simple assertion that the flowers of this magnificent variety have been sold wholesale as high as \$1.50 per dozen, and none less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

The constant demand for every one who has seen the plants in flower is "When will the Hannah Hobart be for sale?" This led us at last to the conclusion to distribute the same next year, and we are ready to book orders from now on for delivery beginning January 1, 1906. Send your orders in early as they will be filled strictly in rotation.

PRICE, \$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO., 1251 Chestnut St., SAN FRANCISCO, CAL.

**The Pride of
California....**

HORTICULTURE

VOL. II

JULY 15, 1905

NO. 3

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

SUBSCRIPTION PRICE

ONE YEAR, IN ADVANCE	\$1.00
TO FOREIGN COUNTRIES	2.00
SINGLE COPIES05

ADVERTISING RATES, NET

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FULL PAGE	24.00
HALF PAGE	12.00
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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE — Peony Lucy E. Hollis		NEWS OF THE CLUBS AND SOCIETIES — (Continued)	
HYBRIDIZING THE PÆONY — George Hollis	59	Society of American Florists	66
PÆONY SOUTH WEYMOUTH — Illustration	59	Convention Hotels in Washington	66
PÆONY MODELE DE PERFECTION — Illustration	59	Convention Courtesies to Gardeners	66
ECHOES FROM ENGLAND — Harry H. Thomas	60	The Washington Souvenir	66
SOME HOLLIS SEEDLINGS — Illustrations	61	Massachusetts Horticultural Society	66
CALCEOLARIA, HYBRID OR GREENHOUSE VARIETIES — K. Finlayson	62	American Society of Landscape Architects	66
CARNATION DISEASES — R. L. Adams	63	Newport Horticultural Society	66
NEWPORT HORTICULTURAL EXHIBITION		Gardeners' and Florists' Club of Boston	66
Group of Palms and Foliage Plants — Illustration	63	New Jersey Floricultural Society	69
Gateway Decorations — Illustrations	63	CUT-FLOWER MARKET REPORTS	
Group of Dracænas — Illustration	63	Baltimore, Boston, Buffalo, Chicago, Cincinnati, Louisville, Newport, New York, Philadelphia, San Francisco, St. Louis	67
EDITORIAL	64	SEED TRADE	67
CONCERNING AWARDS AT ROYAL HORTICULTURAL SHOW	65	MISCELLANEOUS	
NEWS OF THE CLUBS AND SOCIETIES		Consolidation of Building and Heating Interests	65
Toledo has a Visit from Detroit	66	Sweet Deal for Winter — Malcolm Orr	65
		Window Glass Mergers	65
		Personal	65
		Philadelphia News Notes	69
		Obituary	69

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MONTREAL — Edgar Elvin, 136 Peel St.
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PROVIDENCE, R. I. — T. J. Johnston, 171 Weybosset St.
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According to our conversation to-day you may ship me 5 large or 10 loads of ashes to Kenosha, N. W. I want 3 car loads to spread on 40 acres of land that I intend to sow to rye this fall, and 2 car loads for our Cemetery. Be sure you send me the Joynt brand. Very truly yours, (sgd.) Reese Carpenter, Comptroller

Write for prices and information to **JOHN JOYNT, Lucknow, Ontario, Canada**

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Emperor - - - \$14.00 per 1000
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Write for special price on large quantities.

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Seeds of Hardy Perennial Flowers

Sown in June and July will germinate and give excellent stock for transplanting in the Fall

If you want the choicest strains in Flower Seeds write us.

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We are now booking orders for

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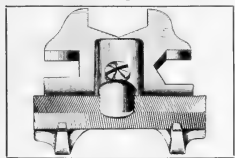
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Blue List of Wholesale Prices mailed only to those who plant for profit.

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do it. Entirely new and away ahead of any similar device on the market. Has eight cutting surfaces that can be used in succession. Made of the highest grade crucible steel. Will last a life-time. Try it.

Postpaid 75c. Postpaid

Show it to your friends. A liberal discount allowed to agents. Satisfaction guaranteed. It's the greatest little article you ever saw, simple as it looks.

George C. Watson

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Illustrators and Designers

Zirngiebel Giant Pansies

Market and Fancy Strains.

New crop Seed of those well known unrivalled Pansies, ready now, in trade packages at ONE DOLLAR each, either strain.

DENYS ZIRNGIEBEL, NEEDHAM, MASS.

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NEW CROP PANSY SEED

Mitchell's Giant Prize

Our Giant Prize Pansies are not to be compared with the ordinary Giant Trimaudeau. The seed we offer will produce flowers of much heavier texture.

Mitchell's Giant Exhibition Mixed. A strain which we have secured from the leading Pansy Specialists in Germany and France, and cannot be excelled in size, texture and brilliant colors. Price per trade packet, 50¢; per 100, 75¢; per 500, \$5.00. Trade pkt. 10¢.

Giant Azure Blue.....	40¢	\$2.00
Giant Black Blue.....	40¢	2.00
Giant Hortensia Red.....	40¢	2.00
Giant Snow Queen.....	40¢	2.00
Giant White, with Eye.....	40¢	2.00
Giant Yellow, with Eye.....	40¢	2.00

For complete list of Pansy and other seasonable seeds see our New Wholesale List. Send for a copy.

HENRY F. MICHELL CO.

Seed Growers and Importers
1012 Market St., Philadelphia, Pa.

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I am interested in a glass factory in Jersey. I want to hear from you before placing your order for glass. I think I can put you in the way of saving some money. State quantity, quality, and size wanted. NOT IN THE TRUST.

Address:

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* Remember this factory is NOT in the TRUST and has a free foot.

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BULBS

Fall Bulb Price List on request

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Seeds, Florists' Supplies, and Agricultural Hardware
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THOS. J. GREY & CO.

AGRICULTURAL IMPLEMENTS

..SEEDS.

FARM, GARDEN and LAWN SUPPLIES

We carry in stock Duplone Paris

Leading Machines

32 SO. MARKET ST., BOSTON
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Hybridizing the Pæony

I have been at hybridizing or raising of seedling pæonies for many years. When I began I was hampered with having only four or five varieties, and none of them of the standard quality. I was wanting in light colors, but I soon obtained a plant of a pink variety, E. M. Harris, and this, with the crimson Pottsii, marked the beginning. I still lacked a white one. Nevertheless, I went to work, and from these produced Welcome Guest, shell pink, tipped with white, rose-flowered, which has been certificated by the Massachusetts Horticultural Society, and was in three collections of several exhibitions, prize winners, at the recent pæony show held in Boston, June 17; the deep crimson Miles Standish and John Alden, a pale crimson or dark pink, a fine flower for the lawn, but not fine enough for the critics. At this time I imported a collection and got my white pollen-bearing plant, and from these have sprung Goliath, an extremely large, full double, rose-flowered, deep pink bloom, and Maud L. Richardson, white, flushed with rosy lilac, rose-flowered, and a finely modeled form, both of which have been certificated by the above-named society. Next came Beauty's Mask, with its flaunting heads of rosy-white and gold, borne on tall stalks; this is rose-leaved also.

Owing to the rivalry of the numerous growers I have exercised the greatest care in the selection of seed, sowing seed only from the best, and selecting the pollen only from the finest blooms, thus ensuring the more certainty of what the result will be. Then, after the sowing of the seed, ensues the waiting for the plants to appear, which will not be until the second year, except in occasional instances, and



PÆONY SOUTH WEYMOUTH

then it will be from four to ten years before I can know the result of my labor. For thus we make haste slowly, keeping in view the light that is before us; always remembering the poorest come first, like all other high-bred flowers; nursing the feeble ones in their infancy, for among them may be the priceless one we are looking for. The percentage of good flowers increases with the selection of seed, for with

good parentage only can we hope to attain success, for we want the children better than their parents; with this thought before us, we have courage for our work.

There is a fascination in originating new varieties, whether they be pæonies or other flowers or fruits, that surpasses all other employments; the creating of new forms, or the improving of those already existing, lends enchantment to employment, and makes labor sweet. I well remember when Lieutenant Hobson, a Japanese, appeared in my collection, a deep crimson-purple, crowned with gold. It was entirely different from the common run of singles and doubles; I had neither seen nor heard anything like it, but I have since learned that Kelway calls it Imperial, and values it almost



PÆONY MODELE DE PERFECTION, AT PETERSON'S NURSERY, CHICAGO

beyond price, and Harrison tells of the "new race that is coming." It was so different from any of its companions, whence came it? It was surely a new revelation, a sign of progress, to lead us on and up, in the Way Beautiful; a new revelation to make glad the heart, for certainly this was the herald, for others far excelling in beauty and gorgeousness have since followed in its strain — varieties like Aureole, Glory, Eternal City, Prince Alert, and Youth.

In raising seedlings you must learn to labor and wait. You must commence at the highest levels to command the hopes of the highest ideals, keeping ever before you the shining mark of success, remembering that the one that you are looking for is the one of one thousand, or the one of ten thousand, the one that shall command the attention of all (like Lucy E. Hollis) whether they be critics or the multitude.

As the seedling season presents its blooms, divide them into three classes, the "poor," the "perhaps," and the "best." The "poor" can be consigned to the rubbish heap or, as Harrison suggests, "to the bargain counter." The "perhaps" give another season's trial, for some of them will develop into good ones and will yet want another season of trial before

you will determine what to do with them. Of the "best" some will not appear as brilliant another season, while some of them will be much better, and these latter will be the ones that will be elected.

Of my seedlings for the last two or three years the following will be found among the elect:

Standard Bearer, mauve pink, high, incurved petalage, forming a solid mass; modeled after the style of Madam Duce.

Mary A. Livermore, extremely large, rose-leaved, rosy pink, edged and flushed with white.

Usona, very large, rose-leaved, pink and white.

Bunker Hill, deep cherry crimson.

John Hancock, cupped variety of crimson edged white; rose-leaved.

Paradise, flesh white, rose-leaved.

Mrs. John Smyth Fogg, pink.

Admiral Togo, deep red, overlaid with scarlet.

Among the darkest varieties, leading them all, is Miss Lucy E. Hollis, a very large, light satiny rose flower.

George Hollis.

Echoes from England

NEW PLANTS

Several new plants which promise to become valuable have been exhibited in London this week and particulars of them can hardly fail to be interesting to you. The most popular one is a new sweet pea called Henry Eckford, the name of its raiser, Mr. Henry Eckford, who has done more to improve the sweet pea than any other grower in the country. As some acknowledgment of the successful work of Mr. H. Eckford in connection with the sweet pea, a shilling fund has been started for the veteran grower, and already some eight hundred shillings, which of course mean eight hundred subscribers, have been received. The sweet pea is one of the most popular flowers in the country at the present time and bids fair to rival the rose and the carnation in private gardens if not with the market grower. The new sweet pea Henry Eckford is a very handsome one; the color may perhaps be best described as orange-scarlet or salmon-scarlet, it is a shade difficult to portray in words. It is a very distinct and beautiful variety and will undoubtedly soon become popular. In addition to its rich and attractive coloring, this variety is unusually free flowering, two and sometimes three flowers being produced on a spike.

Impatiens Holstii. The salmon-colored Impatiens Sultani has long been a favorite greenhouse flower with us, but it is altogether eclipsed by this new introduction called I Holstii. The flowers are bright vivid red, almost scarlet. They are very freely produced, even on quite small plants, and make a brilliant show in the greenhouse. It will probably also be used for bedding out of doors in the summer time. I first saw this plant at the Paris International Flower Show in May when it was exhibited by a German firm. In London it was shown by Messrs.

Cannell & Sons, Swanley, Kent, an influential and old established firm of nurserymen and seed growers.

Aster sub-cœruleus. One of the brightest and most useful flowers in the hardy border at the present time is Aster alpinus. This new Aster sub-cœruleus may be said to be a much finer plant of the same style. It is perennial, growing about twenty inches high. The flowers are larger than those of Aster alpinus, beautifully formed and bright pleasing mauve with yellow disc. The two colors are of shades that associate to produce a delightful effect. This aster will undoubtedly prove to be an excellent garden flower for the hardy border in early summer. It was shown by Mr. Amos Perry, the well-known hardy plant grower of North London.

Phlox canadensis, Perry's variety. This is another hardy plant, a much improved form of the type, that is worth bringing to your notice. It is one of the most profuse flowering plants I know, and invaluable out of doors in early summer. The flowers which are larger than those of the type are pale blue in color. Mr. Amos Perry is also the introducer of this Phlox.

RHODODENDRONS AT KEW

There is much to interest and to be admired at the Royal Gardens, Kew, at all times of the year, but perhaps early summer is the most delightful time of all. Flowers are then lavishly produced on tree and shrub, and the leafage of a thousand different trees is not yet tinged by summer sun. The collections of flowering trees and shrubs are one of the glories of Kew, and indeed one could imagine no finer garden picture than the azalea garden or the rhododendron dell when either is at its best.

Harry H. Thomas

London

HORTICULTURE

Some Hollis Seedlings



GLORY

GYPSY

PRINCE ALERT



MAUD L. RICHARDSON

ADMIRAL DEWEY



BUNKER HILL

BEAUTY'S MASS.

EDWIN BOOTH

Calceolaria, Hybrid or Greenhouse Varieties

Now is the time to be thinking of sowing seeds of the above in order to procure decorative plants of considerable size as well as exhibition plants in time next year, and one of the first essentials for the successful cultivator to keep in mind is the procuring of the best strain of seeds obtainable, for it is as easy to grow the best strains as it is to grow the indifferent strains, and infinitely more satisfactory at the finish line. Firms that have invariably made a good reputation for themselves in furnishing seeds of the highest merit, are logically the ones to be patronized as being likely to supply the article to meet all expectations. Yet it is well, at times, to deviate from a beaten path for the sake of self-convincement, and procure a few from different sources and note results. Such a test to be of value, however, must be carried out on strictly methodical principles and not hap-hazard, that is, each kind must necessarily be kept separate and labelled up to the flowering stage.

At the very commencement of calceolaria culture from seed, there begins the trouble that is likely to unstarth the enthusiasm of the average gardener, for they will persist, without the most exacting care, to vanish from sight by damping off; doubtless this can be attributed to their impatience and dislike of warm surroundings which is difficult to get over at this season of the year should the season be normal. The fact that later batches sown in August go ahead with much less fuss seems to lend support to the above theory. Notwithstanding that the present-day calceolarias of our conservatories are an evolution of considerable standing from progenitors inhabiting lofty mountain regions in Southern America, Peru, and Chili, yet it seems that their native hardness and love of bracing cool surroundings still clings to them, for in such only do they make any progress, a fact that must not be let out of sight should we court success with them. Well out of the seedling stage, with an eye to keeping them cool and shaded from bright sunshine, and after the natural cool nights of autumn set in, calceolarias are not difficult to grow, neither are they so dirty and lousy as reputed to be when assigned to proper quarters, which of course must be cool and airy.

Shallow pans are probably the best receptacles to sow calceolaria seed in, and should of course be well-drained. Finely-sifted soil composed of leaf mold or peat, with a small portion of soddy soil and clean sharp sand in ample quantities mixed thoroughly together, makes a suitable compost for the seed; this should be moist enough not to require any watering for some few days after the seeds are sown. As the seeds are extremely small they should be simply pressed on the surface of the soil and not covered as most other seeds are; it follows then that extreme care must be taken in watering, so as not to wash

the seeds from their positions, and until germination takes place; the best way to accomplish this is to dip the seed-pans in a vessel of water to the point of saturation. A pane of glass over the mouth of the seed pan is very essential, as it will check evaporation, thereby reducing the watering operation to a minimum. After germination takes place the pane of glass ought to be tilted to admit air, and as the seedlings get stronger it ought to be removed altogether.

I have found powdered charcoal for the seed receiving layer a good thing to prevent excessive damping-off. As soon as they can be handled at all, they should be pricked off in other pans of fresh soil, the best prevention of all from damping-off. It follows after what I have said of their nature, likes, and dislikes that the coolest place possible is to be secured for placing the seed pans in. A cold frame facing north is a good place, double sheltered on hot days if deemed necessary and as experience teaches. A north lean-to greenhouse where the sun hardly ever reaches in summer, provided it is kept cool and airy, is an ideal place for raising seedling calceolarias.

Of necessity the seed pans must be kept on shelves close to the glass. Whatever place they may occupy it is well to have quantities of tobacco stems strewn in their immediate neighborhood, to be replaced at frequent intervals with fresh stems; this prevents the attacks of greenfly, spider, and thrips, and is much safer than smoking. They should be repotted like any other plants as their progress warrents; on approaching their final potting, good maiden soil of a soddy nature is very acceptable to them and this should contain a liberal quantity of sheep-manure or cow-manure, gathered from a pasture in a somewhat hard and bleached condition; a small quantity of leaf-soil, sand, and charcoal nodules completes a very suitable compost, other things being equal.

Careful watering is necessary with calceolarias at most all stages. On account of their soft and woolly foliage, and especially when the plants get large and prior to flowering, water should be introduced carefully underneath the foliage and not indifferently over head, otherwise they will become rusty and more than likely quantities of the foliage will decay. A house a few degrees above frost line suits them in the winter admirably; perfectly healthy and vigorous, and when the roots embrace thoroughly the mass of soil in the pots, they stand considerable feeding in liquid form. Enterprising cultivators should set aside exceptionally fine varieties to obtain seeds for themselves for then they can rest assured that they have something to rely on.

H. Dinsmore



GATEWAY DECORATION AWARDED SILVER CUP
NEWPORT EXHIBITION



SECOND PRIZE GATEWAY DECORATION BY BRUCE BUTLER'S
NEWPORT EXHIBITION

Carnation Diseases

I. RUST. (*UROMYCES CARYOPHYLLINUS*)

There are few houses where rust does not occur. The appearance of this disease is indicated by a slight swelling of the stem or leaf and a paler color. Later this splits open, the epidermis being turned to one side, and vast numbers of brownish, spherical spores are ejected, the whole presenting a blistered appearance. These are the uredospores and they will germinate in the presence of water. In the interior of the affected portion, minute threads wind in and out among the cells, sending out haustoria which suck the sap. A short time after these spores are formed, the same spot, or sorus, puts out a second kind of spores, the teleuto-spores, one-celled brown bodies, which germinate after a period of rest, usually winter, thus perpetuating the disease from year to year. Cuttings are particularly subject to rust attacks.

Treatment. Keep moisture off the leaves. Cover rust spots with lime. Give plenty of light and air and grow healthy plants.

2. LEAF SPOT, OR BLIGHT. (*SEPTORIA DIANTHI*)

The "spots" appear as circular or oblong places, with a brown or white center, surrounded with a purplish dark border. The band is well defined on its inner border but becomes mixed with the green on its outer side. Both leaves and stems are affected — the stems often to such an extent that the sap is cut off. Black specks, the fruiting bodies, show

in the center portions. The spores are produced in depressions whose edges rise a little above the leaf.

Treatment. Spray with Bordeaux or Potassium Sulphide solution, or ammoniacal solution. Give good cultural conditions.

3. LEAF MOLD, FAIRY RING, OR RING MOLD. (*HETEROSPORIUM CHINULATUM*)

Leaf mold starts at one place, spreading evenly in all directions, producing circular spots one-sixteen to one-quarter inch in diameter. These spots are especially abundant near the tips of young leaves. Gray or brownish mold arranged in concentric tufts occupies the center. This often falls out. From a pale, ashy color the spot changes to a grayish shade approaching dark brown.

The spores are borne on fruiting threads which break the surface of the leaf in clusters of two to six. The threads produce several spores in succession but each in a different place, so that they present a knotty, angular appearance. The spores are variable in size and form, and bristle all over with minute spines. Daybreak is very susceptible to this mold.

Treatment. Cut back diseased portions. Spray with Bordeaux, when flowers appear. Give good culture.

R. Z. Adams.

(To be continued.)



FIRST PRIZE GROUP OF PALMS AND FOLIAGE PLANTS
NEWPORT EXHIBITION



GROUP OF DRACENAS EXHIBITED BY DAVID McINTOSH
NEWPORT EXHIBITION

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE,
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The article on the system of awards at horticultural exhibitions which we reprint from the *Gardener's Chronicle* of London, will strike a responsive chord in every one on this side of the Atlantic who has ever had any serious connection with such shows. But where is the universal remedy for the defects which all recognize exist in every system thus far devised? The subject is one that will bear discussion and plenty of it.

The visit of the American Society of Landscape Architects is a notable event for the visitors and for Boston. If America is to develop a distinctive school of landscape-making, Boston will be credited by posterity with having been its birthplace. The genius of Frederic Law Olmsted becomes more apparent as time passes, and will grow upon our comprehension as the years bring to perfection the wonderful harmonies of beauty and utility which his great mind conceived and realized before they had taken material form. The young man planning to devote his life to landscape work must come too Boston if he would see and draw inspiration from the priceless legacy which this noble philanthropist and artist has given to his countrymen — rich and poor — for all time. And it does Boston good to have these men, seeking to follow in the footsteps of her benefactor, honor her with frequent visits, kindle her appreciation of her incomparable park system, and give their counsel as to where advancement may be made, in harmony with the spirit and intent of its founder.

We have heard considerable surprised comment on the lengthy list of new greenhouse construction reported in our issue of last week by one of our western advertisers. Commercial greenhouse building is going on in the central west at a rate not fully realized in the eastern and older part of the country, and flower growing has there already reached a mag-

nitude understood only by those who have seen it. It is possibly true that the methods of culture as followed by some western growers are rough and hasty, as compared with the attention to fine detail which is characteristic of the most successful eastern culturists, and the product may sometimes lack the exquisite finish of the carefully-nurtured material seen in the New York and Boston markets, but that will all come in good time. Horticulture recognizes no east, west, north, or south, in precedence one over the other. Each and every section can find something in the other worth learning and deserving of imitation. One of the most important points to be noted in the remarkable increase of glass area in the west is the splendid confidence displayed in the future magnitude of American commercial horticulture.

We see no good reason why our friends in Washington, who are to be the hosts of the Society of American Florists and Ornamental Horticulturists at the convention of 1905, have been called upon to give assurances that any one special class of the visitors shall not be neglected. The sentiment that would encourage the drawing of a dividing line between the grower whose salary is paid by a private employer and the one whose salary comes from a commercial employer, or from direct sales of his own products, does not appeal to us as conducive to the benefit of either or the advancement of horticulture's best interests, and has certainly never had voice or recognition in the national society, as a perusal of the constitution and history of that body will prove. Eligibility to membership, as defined in the first prospectus issued in 1884 and retained in the constitution ever since, included *all* without any distinction whatever, and the records show that no less than fifty members in no way connected with commercial horticulture have served the society zealously in various official capacities. Why should a gardener feel "out of place" in a society that belongs to his own fraternity? Nobody need absent himself from the convention on such grounds. In every city the society has visited, thus far, the welcoming hand has been outstretched and the heartiest hospitality extended to every guest. No guarantees are needed as to Washington.



Thanks to HORTICULTURE, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico, and Cuba, which goes far to prove the value of HORTICULTURE as an advertising medium. We are very pleased with the results of our advertising in HORTICULTURE, and wish every success to the paper and editor.

Respectfully,

A. LEUTHY & Co.



THE AWARDS AT THE ROYAL HORTICULTURAL SHOW

The practice which is so often followed of giving an award to an old and well-tried variety, hitherto, by some accident, overlooked by the Society, has given rise to adverse criticism and occasionally provokes a sense of the ludicrous. It is absurd, say some, to make an award, we will say by the way of illustration, to Cox's Orange Pippin, to Black Hamburg Grape, or to any other variety whose merits are now generally recognized, although it may not have been stamped with the hall-mark of the Society. Perhaps it is. But would it not be equally absurd that such varieties should never receive recognition from the Society, and never be included in its honor lists? Quite lately, two excellent potatoes, which have long been in commerce, were awarded first-class certificates. Both had previously, when grown at Chiswick, received awards of merit, and having now, after several years' experience, proved to be first-class standard varieties, the award of merit has been found inadequate, but in this case it is distinctly the stepping-stone to a higher award. But to many persons wedded to traditional methods, and who think awards of the nature referred to should be made to new things only, the granting of first-class certificates to comparatively old forms is a stumbling-block. In their estimation it is better to grant awards whilst the subjects of them are new and scarce, even if a great mistake eventually results, than it is to wait patiently for a few years until experience has shown whether the subject be worthy of an award or not.

The whole matter hinges on the purpose for which subjects are placed before the fruit or any other committee. If staged in the hope of getting a certificate that shall enhance the trade value of the subject, it is evident that a belated award, after several years' experience of its cultural value, can be of no service in that respect. If the sole object in staging new or assumed new things or varieties be to give the subject publicity, and to secure an award on the merits of the exhibit, without reference to any financial result, then nothing but good can follow if the granting of an award is deferred until time has shown whether it is merited or not.

Exhibits that come before the fruit committee often come into a different category from those presented to the floral committee. Such a remarkable plant as *Meconopsis integrifolia* tells its own story at once. Its claims to immediate and first-class honors were incontestable. With fruits and vegetables the case is different. What may be described as remarkable products never crop up with them. They come in the form of improved varieties, or what are assumed to be so, but beyond the sender no one has any proof that they are such. It is not possible for the committee to determine whether they are so or not until time and experience have determined the question. When it is remembered how numerous are the varieties of fruit, for instance, that are put into commerce with Royal Horticultural Society awards, but which fail to secure any permanent place in gardens, it is not certain that the practice of granting certificates on the first appearance of a subject is a mistake.

A simple way of getting over the difficulty would, if it were only practicable, be to make awards of merit to all subjects provisionally, these awards being granted and regarded solely as evidences of *prima facie* or apparent value or special usefulness, but subject to advancement to a first-class certificate if, as happily sometimes happens, the subject proves to be distinctly meritorious. So far as the fruit and vegetable committee is concerned it is now happily possible to test so

many things under favorable conditions in one or several years at Wisley, that the proposals now made would create no hardship, and would prevent mistakes generally.

A study of the honors bestowed during the past thirty years is rather unsatisfactory, because the lists contain so many records of awards which time has shown to have been given without due warrant.

It is, to our thinking, most desirable that awards of merit of any kind or degree should continue to be made by the Royal Horticultural Society and its committees on other than commercial considerations, though we are afraid that in the case of individuals these influences must continue to exert their power till the millennium comes. Of course we by no means wish to convey the notion that financial considerations should not have their due weight with exhibitors. What we desire to see is that neither the committees nor the council should be unduly influenced by them. What they have to do is to examine what is brought before them, and to record their impressions as to their abstract merits irrespective of their possible value as commercial products. If a *Welwitschia* or a *Raflesia* were brought before the committee neither would have any financial importance, but the interest attaching to them from the point of view of the Society would be a thousandfold greater than that of a "new" apple or of an *Odontoglossum* with four spots instead of three.

Take the case of the *Meconopsis* before alluded to. It received a first-class certificate, but that, in our opinion, was decidedly inappropriate, and offered an unintentional insult to the plant by lowering it to the category of the commonplace. Fortunately it also received the far more appropriate award of a botanical certificate. But some will say that money value must be the ultimate test. Very well; let it be so. Let us have in that case a commercial committee to deal exclusively with that aspect of the case. This may sound Quixotic, but the higher the ideal the Society strives after the more will it gain in the respect of the public, the better it will be for the traders in the long run, and the greater good will it do to horticulture pure and simple.

We are told that some propositions are under the consideration of the fruit committee dealing with the matter of awards. Till they have been thoroughly considered and adopted by the committee it would be premature to make further comments on them. It is nevertheless a good sign to see the committee taking steps to remove existing improprieties and anomalies, and, as we hope, to reduce the extravagant and premature award of certificates.

The very extraordinary *Primula* shown at the last meeting was, it is true, not in condition as an exhibition plant, and will doubtless receive a certificate when more fully developed. In the meantime, the scientific committee has saved the credit of the Society by excluding it (botanical committee) otherwise the most remarkable plant shown on that occasion would have been given a passed over. *The Gardener's Chronicle*, London.

WINDOW GLASS MERGER

Cleveland, Ohio, July 12

By the merging of the Interstate Window Glass Manufacturers' Association with National Window Glass Manufacturers' Association, a consolidated convention will be held at Cleveland, Ohio, on September 10. Ten per cent of the independent output is controlled by the organization. A special committee was appointed to meet with the employers and settle a scale of wages. It is expected by the workers, may be less so than it was last year, owing to labor conditions. — *Transcript*.

CONSOLIDATION OF BUILDING AND HEATING INTERESTS

Special attention is called to the new announcement of the Burien & Hines Construction Company on last page of this issue. The re-organization of last year, aimed at the consolidation of the three companies under headquarters occupied by Harding & Co., for many years at 233 Mercer Street, New York City, have been effected and it could not be added at this point to the address, 1133 Broadway. The new offices are very spacious and well adapted for the transaction of the business of the various departments of this big concern. The magnitude of the business which these three companies — now consolidated — have built up conveys some idea of the immense advances made in horticultural industries within the past few years. We do not doubt that a result of the higher practical value will follow the merging of interest. Congratulations are cordially extended.

SWEET PEAS FOR WINTER

EDITOR HORTICULTURE. Will you please inform me the best time to plant sweet peas for winter in house-use; also the kind that sells best in Boston market.

Yours truly,
K.

From the middle of August until the middle of September is a good time to plant sweet peas for early winter flowering. If the beds or benches are idle then they can be sown in rows right where they are to flower. If not, as is usually the case, they ought to be started about that time in 3½ inch pots set in a corner of the greenhouse, or in a frame outdoors and grown there until such time as the bench space is available. They do equally as well transplanted from pots and no time is lost.

As to varieties, *Mont Blanc*, white and earliest of all, pink and white are the best, if not the only kinds for early flowering purposes.

MALCOLM ORR.

PERSONAL

F. L. Atkins of Bobbink & Atkins sailed for Europe on July 12, on *S. S. Statendam*.

G. B. Moulder has been appointed superintendent of the station grounds of the Illinois Central railroad.

Howard M. Earl, of W. Atlee Burpee & Co., Philadelphia, reached home on Saturday, July 8, from his European trip.

Arthur Merritt, of New York, mourns the loss of his eldest son, fifteen years of age, who died on Monday, July 10, at the New York hospital, of appendicitis.

Miss Alice Luffman, daughter of George E. Luffman, was married to Miss Beakner Goddard at St. Mary's-on-the-Highlands, Birmingham, Ala., on June 28. Miss Amy K. Luffman, sister of the bride, was the maid of honor.

Mr. Harry Baisley, Mr. A. N. Peterson, Cromwell, Conn.; E. B. Sage, Bradford, W. J. Quinlan, Syracuse, W. J. Simmons and family, Toronto, Ont.; Dr. Rowlands, Utica, N.Y.; Hauswirth, Chicago; Aug. Krueger, Meadville, Pa., visited Buffalo the past week.

The rose and strawberry show of the North Shore, Massachusetts Horticultural Society on July 6, was a very excellent display of the cultural abilities of the expert gardeners of Manchester-by-the-sea, Beverly and neighborhood. There was a fine exhibit of aquatics from H. A. Dyer.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS
AND ORNAMENTAL HORTICULTURALISTS

Attention is called to the prizes offered by Treasurer Beatty of \$25, \$15, \$10, for the first, second, and third best essays on "The Ideal Employer." These papers must be sent to the office of the secretary without signature, but with the name of the writer accompanying same for the purpose of record, and should not exceed fifteen hundred words each. The time limit within which these papers must be filed with the secretary has been extended to July 20.

WM. J. STEWART, Secretary.

HOTELS IN WASHINGTON

The following list is supplied by the hotel committee of the Washington Florists' Club:

* The Shoreham Hotel, 15th and H street, N. W. six squares from meeting hall, single room for one person, \$2 per day; two persons, \$3; room with bath, one person, \$3 per day; two persons, \$4; suites, parlor, two bedrooms with bath, \$10 per day.

Arlington Hotel, Vermont avenue and H street, N. W. seven squares from hall, \$2 per day.

* Hotel Manhattan, 604 606 0th street, N. W. European plan, for gentlemen only, one square from hall, \$1 per day upwards.

* St. James Hotel, 6th street and Pennsylvania avenue, N. W., European plan, seven squares from hall, single rooms, \$1 to \$2.50 per day; rooms with bath, \$2.50 per day; suites, with bath \$3 to \$4 per day.

* Colonial Hotel, 15th and H street, N. W. European plan, six squares from hall, single rooms, \$1 per day.

* Hotel Johnson, 13th and E street, N. W. four squares from hall, European plan, \$1 per day upwards; American plan \$2.50 to \$4 per day.

* Columbia Hotel, for gentlemen only, 1413 Pennsylvania avenue, N. W. 6 squares from hall, room for one person, \$1.50 per day; two persons, \$2.50 per day.

Metropolitan Hotel, seven squares from hall, American plan \$2.50 to \$4 per day; European plan, \$1 to \$3 per day.

El Reno Hotel, opposite B. & O. Depot, eleven squares from hall, single person, \$1 per day; two persons, \$2 per day.

The rates of the following hotel have not been received by the committee but will be announced as soon as received.

Riggs House, G and 15th street, N. W. five squares from hall.

National Hotel, 6th and Pennsylvania avenue, N. W. seven squares from hall.

The Oxford, 14th and New York avenue, N. W. five squares from hall.

Park Hotel, 1017 I street, N. W. three squares from hall.

New Willard, Pennsylvania avenue and 14th street, N. W. six squares from hall.

Kalcik Hotel, 12th and Pennsylvania avenue, N. W. four squares from hall.

* This is specially recommended to Hotel Committee.

COURTESIES TO GARDENERS

At a meeting of the Washington Florists' Club held on the 9th inst. a letter from President Vaughan was read in regard to the private gardeners who intend to take in the convention. A number of the club members expressed their intention of attending the convention, while others had raised the objection "We know so few in the trade and not belonging to the society ourselves, we would feel lost and maybe out of place." President Vaughan suggested that a member of the local club be appointed to look after the interests of the private gardener. The club appointed Mr. Peter Bisset chairman of a committee to see that all private gardeners who come to Washington for the convention be met at the depot and made welcome, and to render them any assistance

required. Any gardener who intends to come to the convention can have rooms booked for him, or can get any information desired by writing to Peter Bisset, Twin Oaks, Washington, D. C., who will do all in his power to make the visit of the private gardener to the convention a pleasant one.

THE WASHINGTON SOUVENIR

The most elaborate and beautiful souvenir book ever issued on the occasion of an S. A. F. convention is now in preparation, and the time is very short until the advertising lists must be closed. Advertisers desiring to have their announcements appear in it and that should include every one having any kind of horticultural material to sell — should secure space and send in copy at once to J. K. Freeman, 612 13th street, Washington, D. C.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

Arrangements are practically completed for the picnic to be held at Randolph Grove on Tuesday, July 25, 1905. The sports committee have arranged a comprehensive list of events which should draw a strong entry. Included are foot races for all ages, also for cut men, married men, and unmarried ladies, boat races on the lake, baseball, cricket, tennis, croquet, quoits, are all on the list, also several leaping contests, throwing shot and hammer, etc. Last but by no means least comes a class for the best looking baby.

There will be a first-class clam bake dinner served and many other attractions. Two prizes will be given in each class; these comprise a very varied and valuable assortment of articles donated by members and well wishers. A very large attendance is expected. Electrics from Milton for Brockton pass the grove.

W. N. CRAIG, Secretary.

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of the Newport Horticultural Society was held Wednesday evening last, President Sullivan in the chair. The secretary's report of the June exhibition was very satisfactory. Four new members were elected, the number including Miss Alice Ketteltas and Miss Maud Wetmore. It is expected that Mrs. Hamilton Fish Webster will deliver an address on the arrangement of flowers at the meeting on July 10th.

Individually no mention was made in HORTICULTURE's report of the June exhibition of the award of a silver medal to Mrs. Andrews for a beautiful miniature rock garden.

The fall exhibition will be held in the Casino, and in order to accommodate all exhibitors the balconies are to be utilized.

MASSACHUSETTS HORTICULTURAL SOCIETY

The first of the series of weekly Saturday and Sunday shows of the Massachusetts Horticultural Society was held on July 8 and 9. There was a brilliant profusion of garden flowers. Delphiniums were especially fine and roses were also seen in splendid quality and abundance, Miss S. B. Fay and M. H. Walsh being the chief exhibitors. Martin Sullivan, gardener to Wm. Whitman, made a remarkable display of delphiniums and campanulas. Mr. Thatcher, gardener to Mrs. J. L. Gardner, also contributed rich groups of delphiniums and irises. There was a large display of other hardy perennials from Harvard Botanic Garden, Blue Hill Nurseries, Bay State Nurseries, F. J. Rea, and Mt. Desert Nurseries. H. A. Stevens Co. showed phlox and iris, Jackson Dawson showed a seedling climbing rose named Day-break. The displays of sweet peas were numerous and of excellent quality.

AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS

This society has just completed a three-day's meeting at Boston. Most of the time was spent in visiting the various public and private places conspicuous as examples of fine landscape work, including the Boston Park system, Metropolitan Park system, and the Sargent, Anderson, Gardner, and Brandegee estates and Country Club, and Robinson Hall at Harvard College where the school of landscape architecture is presided over by Prof. F. L. Olmsted, Jr.

The society is six years old and this was its first visit to Boston where a number of its most influential members are located. Its membership numbers thirty-four, of whom sixteen are Fellows and eighteen Juniors, the latter including the younger men following the profession of landscape designing. John C. Olmsted of Brookline is president, Samuel Parsons, Jr., vice-president, Downing Vaux, secretary, and Charles N. Lowrie, treasurer.

All the above named gentlemen were present at the meeting except Mr. Parsons. There were also O. C. Simonds, of Chicago, Jas. L. Greenleaf, Chas. D. Fay, F. C. Hoth, and C. F. Pilat, of New York, Prof. F. L. Olmsted, Jr., W. H. Manning, J. Fred Dawson, D. F. Dow, Percival Gallagher, S. P. Negus, A. A. Shurtleff, Emil Mische, J. S. Peay, and Prof. Guy Lowell of Boston.

On Friday evening, July 7, a banquet was given at the Hotel Somerset, at which G. A. Parker of Hartford, Sylvester Baxter, Prof. Robeson Sargent, Wm. J. Stewart, J. W. Dunan, and Herbert Wise were invited guests. Following the banquet, President J. C. Olmsted gave an address on Boston's Parks and Park Systems, illustrated with lantern slides. It covered fully the history and evolution of the splendid park system which Boston enjoys. He characterized the introduction of golf playing into the public parks as an unwise curtailment of the privileges of the many for the benefit of the few and criticised some of the defects in early construction. He said that Boston had got her money's worth even if her parks had cost \$10,000,000.

On Saturday evening, after excursions to the Metropolitan reservations on the south of the city, Prof. F. L. Olmsted lectured at the Somerset on the Metropolitan Park System, with stereopticon illustration. Sunday was devoted to an inspection of the Metropolitan reservations north of the city.

TOLEDO HAS A VISIT FROM DETROIT

Under the able conduct of President Robert Watson, and with the commissary department in charge of a committee well-trained and tireless, the members of the Detroit Florists' Club, to the number of twenty-seven, trekked to Toledo on Thursday, June 29. They were in quest of a good time, and they had it — on the sixty mile railroad ride, at the banquet to which they were conducted on arrival in Toledo by a luncheon of the prosperous florists of that growing metropolis under the leadership of sleek-visaged George Heintz — "a proper man, as one shall see in a summer's day," — who knows a thing or two about entertaining, at the banquet, where George P. Beyer, the able toast-master wound up the visitors to restful eloquence, at the greenhouses visited, at the bowling alleys where the men of Detroit squared old scores by walloping their hosts, at Walbridge Park, where both material and esthetic entertainment abounded, on the steamer ride up the Maumee river in fact, everywhere and every minute of the day was packed with pleasure up to the midnight hour when the city of the beautiful rose was again reached and tired adieu were said.

CUT-FLOWER MARKET REPORTS

BALTIMORE There has been little or no chance in the market over the last week, and with the exception of Tuesday and Wednesday when funeral work came in a little brisk, there has been nothing doing to speak of. Good Beauties seem to be the leading flower with the few buyers, and there is a slight demand for first-class stock. Golden Gates, while not of the first class order, are holding their own, and a number of the growers are now bringing in fairly good Couch roses.

The beautiful window display usually noticeable among the floral establishments on North Charles street have been on the decline during the past few weeks, owing to the intense heat, and the marked scarcity of good flowers. During the past six or seven days, however, there has been an improvement in this line owing to the Christian Endeavor meeting which has been the means of bringing thousands of visitors from all parts of the country to this city. This influx of strangers, however, has had very little effect upon sales.

Owing to the extreme heat of the past week, stock has been arriving in poor condition, buyers buying only what is absolutely necessary and with many complaints in regard to this condition of stock. Roses, carnations, and sweet peas have been plentiful, with not much of a demand for the latter. As this is the season of the year that the growers take advantage of conditions and are beginning to repair and remodel their greenhouses, it is expected that shipments of carnations will soon decrease.

BUFFALO The market the past week has entered into mid-summer dullness. Everything in the social line is about over and business is at a standstill, a glut on nearly everything, even Beauties of best quality were hard to move. Carnations, sweet peas, roses, flooded the market. Candidum lilies of good quality were abundant for a few days, but sales were slow on all everything else. Roses were a total glut, some conspicuous signs among retailers offer roses at \$1 per hundred, 12 cents per dozen. Carnations in about same boat, while peas found no sales at all.

The coming week the Elks Reunion is to be held in Buffalo, and it is to be hoped that the market will again regain its lost vitality as this week was one of the dulllest in many days.

CHICAGO That it was the dull season in the cut-flower trade was very evident the first of the week, although good stock sold rapidly and at a good figure. The supply was fortunately very moderate. There was a fair quantity of young stock in teas of splendid color and quality, and as the end of the week approached everything was well cleaned up with the exception of sweet peas and other outdoor flowers. Carnations sold at whatever the grower could get. Astors brought about \$1.50 per hundred; lily of the valley held its own; ferns and fancy greens were in abundance. The demand for American Beauties was steady, excoiling the supply, the quality was good.

CINCINNATI Little can be said in regard to business or stock as conditions remain about the same as in last report. Several of the present have taken advantage of the present quiet condition of trade and are taking their vacations. Fred Lautenschlager of Chicago was a caller this week.

Prices remain about same as last reported.

LOUISVILLE Business conditions last week were very good Saturday, but the balance of the week was very slow. The demand became so great the last day that nothing desirable could be obtained. Carnations of fair quality can be obtained in adequate quantities, and sell up to expectations. Sweet peas have sold unusually well, but can no longer be obtained in quantity. Other stock does not find much demand.

NEWPORT Notwithstanding a somewhat late beginning the florists of Newport are doing quite as well as last year, while indications point to a rush of business during August and September.

Sweet peas as usual, are already almost a drug on the market. This is perhaps intensified by an abundant crop of outdoor roses lasting longer than usual; these being cheap, are bought in preference to sweet peas by people who look to the price of things. Good roses are somewhat scarce, Beauties especially, but much better stock came in during the last few days. Only a few functions have so far been held, although quite a number of small, but select dinner parties have been given; it is at some of these quiet little affairs that the most exquisite table decorations are seen. Florists are therefore very eager for that class of work for two reasons, first because it is very profitable, and second because if an unusually favorable impression is made by the work of the decorator more orders of a like nature come in soon after.

NEW YORK It would be difficult to exaggerate the unprecedented stagnation that prevails in the wholesale cut-flower market here at the present time. Recognized as a season of the year when but little can be done, it has, nevertheless, dismayed even the most pessimistic with its utter barrenness. It is to be borne in mind that the situation is not the result of a sudden collapse, but is in line with experience ever since the first of last March, since which time a comparison of business with that of the preceding year or the average of previous years has almost invariably shown a falling off in magnitude as well as spirit. The dealer who has the least stock to sell is at present, the fortunate man, and the most uncomfortable is the commission man whose growers are numerous and zealous. Roses from young stock of this year are already very much in evidence, and it doesn't take a very large box to hold a thousand of them or a very deep pocket to hold the proceeds therefrom. Carnations are away down as to quality also. Sweet peas swarm everywhere, many of them of very inferior quality, but some remarkably fine. Astors are already here and it is predicted by those who have been looking over the ground that this market is booked for an avalanche of these flowers a little later on, the like of which has never been seen here or anywhere else.

PHILA-DELPHIA Business the past week has been experiencing the usual summer lull. The quality of flowers arriving has been poor, as was to be expected at this season. The only exceptions in the rose line that could be noted were Kaiserin and Beauties which were in pretty good shape and went fairly well. In carnations most of the stock that came in was asleep; but a slight improvement was noted toward the end of the week. Lily of the valley of the best grade was not over plentiful and went fairly well. Water lilies and other outdoor stock were in liberal supply, but the commission houses as a rule did not bother with same. Early closings

and vacations are now in order and the majority of the trade is now laying in a stock of caloric for the fall trade.

SAN FRANCISCO After Alice is here, and at an affair held in her honor this week she wore in her hair "the pride of California," a Hannah Hobart carnation of exquisite beauty. Flowers generally are making a poor showing.

Not in thirty-four years have San Francisco and the bay counties experienced weather so over charged with caloric rays as has been that of the week beginning with the Fourth of July, and the abundance of seasonable flowers in market this week is far inferior to the normal standard of excellence.

ST. LOUIS The growers of roses and carnations in this vicinity are throwing out old plants and planting young stock. Carnations are very poor at present, and long-stemmed Beauties of good quality are scarce. One of the wholesalers had a lot of Bridesmaids recently, the best that have been seen in this market since last winter. During the past week there have been a great many weddings and funerals, and the retailers have been kept quite busy. The plant business in this city has not fallen off as expected after the World's Fair, but has been good all through the season.

SEED TRADE

A new seed company is about to be incorporated at Washington, D. C., styling itself The Pure Seed and Plant Company of America.

The stockholders are mainly farmers, and one of the principal aims is to have the farmers cooperate in the effort to secure pure seeds, especially of grasses and clovers, by keeping their farms free of weeds, so far at least as it is practicable to do so. Further information concerning this new concern will be furnished to HORTICULTURE in the near future. The headquarters of the new company will be at Indianapolis, Ind. A list of the promoters and officers will be given shortly.

During the past ten days the weather has been very favorable for crops, and especially beans and corn, but we need many weeks more equally favorable to insure crops of these important seeds.

WANTS

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th St., Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seed-men and the Horticultural trade generally.

WANTED Young man to take charge of carnation business. Must furnish references. Situation will be a permanent one. Address by care of 104-111 N. 11th St., or Hamilton Place, Boston.

WANTED A working (removal) man to be thoroughly competent to grow carnations and cut stock. Good salary for ability. Apply (reference to SAMUEL H. FLETCHER, SON, 34 South Charles St., Baltimore, Md.)

New Crop Beauties

THE BEST COMING TO
PHILADELPHIA

THE LEO NIESSEN CO.

WHOLESALE FLORISTS
1217 Arch St., - PHILADELPHIA

After July 1st Store Open 7 A. M. to 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

SUMMER BEAUTIES AND KAIZERINS

Samuel S. Pennock

The WHOLESALE
FLORIST OF PHILA.

Commencing, June 26th will close at 6 P. M.

In writing to advertisers, kindly mention HORTICULTURE

Cut Flowers

BOSTON'S BEST
ALL VARIETIES

SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

84 HAWLEY ST.

Tel. Main 5973 BOSTON

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Ave.CHICAGO

In writing to advertisers, mention HORTICULTURE

NEW SPHAGNUM

FINEST QUALITY
FERNS, GALAX AND SUPPLIES

H.M. Robinson & Co.

3 and 11 Province St., Boston, Mass.

VAUGHAN & SPERRY

Wholesale
Commission Florists

If you wish to buy or sell, see them first
PHONE, CENTRAL 2571

60 WABASH AVE., CHICAGO

WILLIAM J. BAKER

WHOLESALE 1432 So. Penn. Sq.,
FLORIST PHILA.

CARNATIONS
Sweet Peas, Lilies of the
Valley

In writing to advertisers, mention HORTICULTURE

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO JULY 11	ST. LOUIS JULY 11	PHILA. JULY 11	BOSTON JULY 12
ROSES				
Am. Beauty, Fan. & Sp.....	30.00 to 32.00	to	6.00 to 35.00	15.00 to 20.00
" Extra.....	25.00 to 30.00	12.50 to 15.00	3.00 to 5.00	10.00 to 12.00
" No. 1.....	15.00 to 20.00	8.00 to 10.00	2.00 to 4.00	4.00 to 8.00
" Lower grades.....	2.00 to 6.00	to 6.00	to 1.00	.50 to 2.00
Bride & Maid — Fan. & Sp.....	5.00 to 6.00	to	6.00 to 8.00	4.00 to 5.00
" Extra.....	4.00 to 5.00	5.00 to 6.00	5.00 to 6.00	2.00 to 3.00
" No. 1 and Lower gr.....	1.00 to 3.00	2.00 to 4.00	2.00 to 5.00	.50 to 2.00
Liberty, Fancy & Special.....	10.00 to 12.50	to	10.00 to 15.00	6.00 to 8.00
" Extra.....	8.00 to 10.00	to	8.00 to 10.00	4.00 to 6.00
" No. 1.....	5.00 to 6.00	4.00 to 5.00	6.00 to 8.00	3.00 to 4.00
Meteor.....	to	to	to	2.00 to 5.00
Carot and Kaiserin.....	2.00 to 10.00	to	6.00 to 8.00	4.00 to 8.00
Golden Gate } Best.....	5.00 to 6.00	to	6.00 to 8.00	3.00 to 4.00
Ivory } Medium.....	3.00 to 4.00	2.00 to 4.00	6.00 to 8.00	2.00 to 3.00
Chatenay } Culls.....	1.00 to 2.00	to	6.00 to 8.00	1.00 to 2.00
CARNATIONS				
Fancy Class.....	2.00 to 2.50	1.50 to 2.00	2.00 to 3.00	.50 to 1.00
General Class.....	.50 to 1.50	to 1.00	1.00 to 2.00	.15 to .50
ORCHIDS				
Cattleyas.....	50.00 to 60.00	to	to 50.00	to
BULBOUS				
Lilies.....	8.00 to 12.50	to	to 10.00	to
Lily of the Valley.....	3.00 to 4.00	to	3.00 to 4.00	3.00 to 4.00
Stocks.....	to	to	to	1.00 to 2.00
Daffodils.....	to	to	to	to
Callas.....	6.00 to 8.00	to	to	to
MISCELLANEOUS				
Mignonette.....	1.50 to 3.00	to	to	1.00 to 2.00
Sweet Peas.....	15 to 40	15 to 20	25 to 50	15 to 25
Adiantum Cuneatum.....	25 to 50	to	to 1.00	.75 to 1.00
" Crownatum.....	to	to	to 1.50	to
" Farleyense.....	to	to	to	to
Smlax.....	8.00 to 12.50	to	to 15.00	12.00 to 16.00
Asparagus Plumosus; strings.....	25.00 to 35.00	to	35.00 to 50.00	50.00 to 50.00
" bunches.....	15.00 to 25.00	25.00 to 50.00	to 50.00	25.00 to 50.00
" Sprengeri.....	15.00 to 25.00	25.00 to 50.00	to	25.00 to 50.00
Gardenias.....	to	to	to	to

PHILADELPHIA CUT FLOWER CO.

1516-1518 Sansom Street, PHILADELPHIA

KAIZERIN, CARNATIONS, SWEET PEAS

Store Closes at 6 P. M. from June 19th to Sept. 16th Daily except Saturday at 1 P. M.

In writing to advertisers, kindly mention HORTICULTURE

EVERYTHING IN CUT FLOWERS

OUR MOTTO: **GOOD STOCK**
TREATMENT
PACKING

EDWARD REID

1526 RANSTEAD ST. - PHILADELPHIA

In writing to advertisers, mention HORTICULTURE

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage

E. F. WINTERSON CO. 45-47-49 WABASH
CATALOGUE FREE

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

OBITUARY

Wm. Hoffman, a well known florist of Pawtucket, R.I., died July 7. His funeral was held from his late residence on Monday, July 10. Many beautiful floral tributes were sent by brother florists from Providence and Pawtucket.

As we go to press we learn of the death of Louis Siebrecht of Floral Park, N.Y. Mr. Siebrecht was a distant relative of H. A. Siebrecht, of New Rochelle, and when he came to this country from Germany entered his employ. In 1872 he secured the place at Floral Park, where he has ever since been located, and went into business for himself. He has devoted his establishment mainly to the production of cut flowers for the wholesale market.

W. F. Lautenschlager, father of HORTICULTURE'S Chicago representative, Fred Lautenschlager, died at Chicago, July 5, 1905, in his 61th year. Mr. Lautenschlager was born in Niefern, Baden, Germany. In 1888 he erected a small private range of greenhouses at his home in Fairmount, Cincinnati, which later was run on a commercial scale. These houses were bought by Dr. Dowie in 1902, and erected at Zion City, Ill. Mr. Lautenschlager was an Odd Fellow. Burial was held in Spring Grove Cemetery, Cincinnati, July 7.

NEW JERSEY FLORICULTURAL SOCIETY

An informal talk upon orchids was given by John E. Lager at the regular monthly meeting of this society on Friday evening, July 7. The floral display consisted largely of orchids. Lager & Hurrell showed twelve varieties of cut blooms; William Barr, Arthur Bodwell, gardener, a Cattleya Harrisoniae with thirty blooms and an Odontoglossum Reichenheimii with one hundred and twenty-six flowers; Henry Graves, Edwin Thomas, gardener, Cypripediums Brownii, leucoglossum and comus.

Japan iris of large size was shown by the Colgates, William Read, gardener, and S. Harshorne, Arthur Caparn, gardener; glorioles by John Crosby Brown, Peter Duff, gardener; anthurium by A. C. van Gaasbeek, W. Burnett, gardener, vases of coreopsis and sweet peas and a collection of vegetables from Douglas Robinson, John Given, gardener, and Phyllostenium Lindeni by William Runkle, D. Kindsgrub, gardener.

PHILADELPHIA NEWS NOTES

The creditors of Joseph Kift & Son will hold a meeting at 1416 South Penn square, on July 21, at 10.30 A.M., to take action in view of the deed filed by this firm on the 8th inst.

The principal topic of interest in the Philadelphia trade this week is the suspension of the house of Joseph Kift & Son. The papers were filed on Saturday but at this writing few of the particulars are known. One report has it that the liabilities are twenty thousand and the assets three thousand. It is said that S. S. Pennock, who is one of the largest creditors, will be the man

We have this day secured the services of Bernard McGinty who in future will have full charge of our cut-flower department. With a valuable practical experience at Welch Bros., and later as salesman for the Montrose Greenhouses, Mr. McGinty is well fitted for the position he is about to fill, and we feel warranted in saying to our patrons that their orders will receive the very best attention.

Thanking our customers for past favors, and trusting for a continuance of the same, we remain,

Yours respectfully,

N. F. MCCARTHY & Co.
BOSTON, July 8, 1905.

ROSES

AS A LEADER we offer **UNCLE JOHN**, the Improved Golden Gate, color lar superior and better shaped flower, in 3-inch pots at \$25; 2-in at \$15 per 1000.

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy

Uncle John, 3-inch,	100	\$25.00
Uncle John, 2-inch,	200	\$15.00
Bridesmaid, 2-inch,	250	20.00

American Beauty (Bench Plants) \$3.00 per 100; \$25.00 per 1000

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Lawson (Pink)	Nelson Fisher	Flamingo	Mrs. Nelson	Florida Hill
Boston Market	Crusader	Harry Tenn	Triumph	Guardian Angel
	Rosevelt		Mrs. Inc	

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Pricing furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in At Condition.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and WHOLESALE
CARNATIONS GROWER of Cut Flowers
A SPECIALTY....

In writing to advertisers kindly mention HORTICULTURE

in charge. On all sides expressions of sympathy for Robert Kift (who was the firm) are freely expressed, and it is hoped that some arrangement whereby this firm business may be continued will be arranged.

A meeting of the creditors of the Peacock Co., of Atco, N. J., will be held in Philadelphia on the 11th inst. The company's embarrassment is said to be only temporary and it is confidently hoped that an arrangement for an extension will be effected.

The Gardeners' Club of Baltimore City held their regular meeting last Monday evening at their headquarters in the Royal Arcanum Building on Saratoga street. Owing to the intense heat the attendance was not large, and no business of any importance was transacted.

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 23th Street, New York

GEO. H. COOKE
FLORIST

Connecticut Avenue and I Street
WASHINGTON, D. C.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x20x12, made in two sections, one for each size letter, given away with first order of 500 letters. Block Letters, 14x2 inch size, per 100, \$2. Script Letters, 1/2. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

Long experience gives us an intimate knowledge of the field. Your advertising is safe with HORTICULTURE.

FRED C. WEBER
FLORIST

4326-28
OLIVE STREET ST. LOUIS, MO.

Established 1873
Long Distance Phone Bell Lindell 676

FRANK MILLANC

Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York

Tel. 209 Madison Sq. Open 6 A.M. to 5 P.M.
In writing advertisers, mention HORTICULTURE

FANCY FERNS

\$1.00 PER 1000 Discount on regular shipments

Michigan Cut Flower Exchange

W.M. DILGER, Manager
WHOLESALE FLORISTS
38 AND 40 MIAMI AVE., DETROIT, MICH.
In writing advertisers, mention HORTICULTURE

FORD BROS.

48 West 28th Street, New York

Fine Roses**Fancy Carnations**

A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JOHN I. RAYNOR

Wholesale Commission Florist SELLING AGENT FOR
LARGEST GROWERS

A full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

TEL. 1998 MADISON SQUARE

49 W. 28 St., New York City

Walter F. Sheridan

Wholesale Commission Dealer in

Choice Cut Flowers

39 West 28th Street, New York
Telephone: 902 Madison Sq.

JULIUS LANG**Wholesale Florist**

Consignments received, sold well and
returns made promptly

53 WEST 30th ST. NEW YORK

Telephone, 286 Madison Sq.

GEORGE A. SUTHERLAND CO.**CUT FLOWERS**

Florists' Supplies and Letters

34 Hawley St. - BOSTON

WM. GHORMLEY

WHOLESALE COMMISSION FLORIST

57 West 28th St., New York

FINEST ROSES ALL VARIETIES

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the
year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones { 2200 } Madison
 { 2201 } Square

Write for Current Prices

In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES - Per 100 - TO DEALERS ONLY

	1 st Half of Week ending July 8 1935		First Half of Week beginning July 10 1935			Last Half of Week ending July 8 1935		First Half of Week beginning July 10 1935		
ROSES										
Am. Beauty, fan. and sp.	12.00	to 25.00	10.00	to 20.00	ORCHIDS	Cattleyas	25.00	to 50.00	25.00	to 50.00
" extra	6.00	to 10.00	5.00	to 8.00		Cypripediums	" to "	" to "		
" No. 1	5.00	to 5.00	3.00	to 5.00	RELIQUOUS					
" Lower grades	5.00	to 2.00	5.00	to 1.00	Lilies	4.00	to 5.00	3.00	to 4.00	
Bride & Maid, fan. and sp.	1.00	to 6.00	3.00	to 5.00	Lily of the Valley	1.00	to 2.00	1.00	to 2.00	
" extra	3.00	to 4.00	2.00	to 3.00	Callas	" to "	" to "	" to "		
" No. 1 and Lower gr.	1.00	to 3.00	1.00	to 2.00	MISCELLANEOUS					
Liberty, fan. and sp.	" to "	" to "	" to "	" to "	Mignonette	" to "	" to "	" to "		
" extra	" to "	" to "	" to "	" to "	Sweet Peas, bunches	2.00	to 6.00	25	to 50	
" No. 1	" to "	" to "	" to "	" to "	Adiantum Cuneatum	25	to 50	" to "		
Meteor	" to "	" to "	" to "	" to "	" Croweanum	" to "	1.50	to 1.50		
Jacq	" to "	" to "	" to "	" to "	" Farleyense	" to "	" to "	" to "		
Brunner	" to "	" to "	" to "	" to "	Smilax	6.00	to 8.00	6.00	to 8.00	
Carnot and Kaiserin	1.00	to 6.00	50	to 6.00	Asparagus Plumosus, strings	20.00	to 35.00	20.00	to 35.00	
Golden Gate } Best	" to "	" to "	" to "	" to "	" bunches	15.00	to 25.00	15.00	to 25.00	
Ivory } Medium	" to "	" to "	" to "	" to "	" Sprenger	8.00	to 12.00	8.00	to 12.00	
Chatenay } Culls	" to "	" to "	" to "	" to "	Gardenias	" to "	" to "	" to "		
CARNATIONS					Lilies bunches	" to "	" to "	" to "	" to "	
Fancy Class	2.00	to 2.50	1.25	to 2.00	Peonies	" to "	" to "	" to "	" to "	
General Class	1.00	to 2.00	.75	to 1.25		" to "	" to "	" to "	" to "	

Florists Out of Town

Taking orders for delivery in
New York City or Vicinity can
have them filled in best manner
and specially delivered by * *

Thomas Young, Jr.

41 W. 23th Street - - NEW YORK

In writing to advertisers, mention HORTICULTURE

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
transferred or entrusted by the trade to
our selection for delivery on steam-
ships or elsewhere receive special
attention.

Telephone Calls, 340 and 341 38th St.

Cable Address, ALEXCONNELL

In writing to advertisers, mention HORTICULTURE

DETROIT**John Breitmeyer's Sons**

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good
sections of Ohio, Indiana and Canada.

In writing to advertisers, mention HORTICULTURE

WEILAND & RISCH

Leading Western Growers and Shippers of

Cut Flowers

59 Wabash Ave., CHICAGO

Long Distance Phone Central 879.

In writing to advertisers mention HORTICULTURE

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.

Wholesale Florists

FLORISTS' SUPPLIES

545 Liberty St., PITTSBURG, PA.

Long Distance Phone, 1435 Court.

In writing to advertisers, mention HORTICULTURE

Bonnot Bros.

WHOLESALE FLORISTS

55 and 57 W. 28th St., NEW YORK

Cut Flower Exchange, Tel. 830 Madison Square

OPEN 6.00 A. M.

AN UNOQUE OUTLET FOR CONsigned FLOWERS

The only house
handling the New
Red Carnation**"Victory"**To be discriminated 1906. Also a complete
line of choicest flowers.**ALEX. J. CUTTMAN**

WHOLESALE FLORIST

52 WEST 20TH ST., NEW YORK

Telephones 1664-1665 Madison Square

Edward C. Horan**Wholesale Florist**

55 WEST 28th ST.

Tel. 1462 Madison Sq. New York

JAMES A. HAMMOND**Wholesale Commission Florist**

113 W. 30th St., NEW YORK CITY

Tel. 854 Madison Sq.

Consignments receive conscientious and prompt
attention. Highest market price guaranteed.
The finest stock in the market always on hand**A. L. YOUNG & CO.****Wholesale Florists**Shipping orders supplied with selected Flowers
at reasonable prices. Send for circular.

54 W. 28th ST., NEW YORK

Tel. 3559 Madison Square

REED & KELLER

122 W. 25th St., New York, N.Y.

Importers and Manufacturers of

FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens

Agents for CALDWELL'S PARLOR BRAND WILD SMILAX

In writing to advertisers mention HORTICULTURE

WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

In writing to advertisers, mention HORTICULTURE

American BEAUTIES

AND

QUEEN OF EDGELY**WELCH BROS.**

City Hall Cut-Flower Market

15 PROVINCE ST., BOSTON

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.

In writing to advertisers, mention HORTICULTURE

The RELIABLE HOUSE

JOSEPH S. FENRICH

Wholesale Florist

Consignments Solicited

48 West 30th Street, New York City

Telephone No. 325 Madison Square.

OUR FLOWERS

We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 25th St. New York City

Telephones, 798-799 Madison Square

Headquarters in Western New York for

Roses**Carnations**

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist

Also Dealer in Florists' Supplies

and Wire Designs

383-87 Ellicott St., Buffalo, N.Y.

GIVE US A TRIAL WE CAN PLEASE YOU

**FANCY CARNATIONS
AND ROSES****Pittsburg Cut Flower Co., Ltd.**

501 Liberty Ave., PITTSBURG, Pa.

In writing to advertisers, mention HORTICULTURE

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE AND COMMISSION FLORIST

115 West 30th St., New York

Tel. No. 956 Madison Square

Wanted. A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI JULY 11	BALTIMORE JULY 11	BUFFALO JULY 11	PITTSBURG JULY 11
ROSES				
Am. Beauty, fan. and sp.	20.00 to 21.00	18.00 to 19.00	20.00 to 21.00	20.00 to 21.00
extra	15.00 to 16.00	12.00 to 13.00	12.00 to 13.00	15.00 to 16.00
No. 1	10.00 to 11.00	8.00 to 9.00	6.00 to 7.00	8.00 to 9.00
Lower grades	6.00 to 8.00	2.50 to 3.00	2.00 to 3.00	2.00 to 3.00
Bride & 'Maid, fan and sp.	4.00 to 5.00	2.00 to 3.00	2.00 to 3.00	4.00 to 5.00
extra	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00	2.00 to 3.00
No. 1 and Lower gr.	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Liberty, fan. and sp.	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
extra	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00	2.00 to 3.00
No. 1	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Metrol	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Jac	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Brunner	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Carnot and Kaiserin	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Golden Gate Best	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Ivory Medium	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Chatenay Culls	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
Killarney	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	3.00 to 4.00
CARNATIONS				
Fancy Class	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	1.00 to 1.50
General Class	50 to 1.00	50 to 1.00	50 to 1.25	50 to 1.00
ORCHIDS				
Cattleyas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Cypripediums	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
BULBOUS				
Lilies	10.00 to 15.00	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00
Lily of the Valley	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Stocks	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Deftodils	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Tulips	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Callas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
MISCELLANEOUS				
Mignonette	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Sweet Peas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Crowneum Farleyense	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asparagus Plumous strings	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asparagus Plumous bunches	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Springeri	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gardenias	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50

List of Advertisers

Page	Page
Aschmann G. 56	Millang Charles 71
Baker Wm. J. 68	Miller Frank 70
Baller F. A. 57	Moninger J. C. 74
Bambrick Thos. H. 67	Murdoch L. J. 71
Barrows H. H. & Son. 65	Nielsen Leo Co. 68
Baur Floral Co. 54	Peacock L. K. 56
Bayersdorfer H. & Co. 69	Pennock Samuel S. 68
Boas W. J. & Co. 70	Perry Chas. W. 74
Boddington A. T. 54	Perkins John J. 68
Bonnot Bros. 71	Phila. Cut Flower Co. 68
Boston Florist Letter 69	Pine Croft Rose House 67
Breck Joseph & Sons. 69	Pierson F. R. Co. 54
Breitmeier's J. Sons. 75	Pittsburg Cut Flower Co. 71
Budlong J. A. 69	Post Bros. 57
Burham Hutchings. 76	Poehlmann Bros. Co. 54
Pierson Co. 76	Pye R. C. 54
Burpee W. A. & Co. 54	
Chandler B.B. & E. J. 75	Rawson W. W. & Co. 58
Chicago House Wrecking Co. 74	Raynor John I. 70
Chicago Carnation Co. 54	Reed & Keller 71
Clucas & Boddington 56	Reid Edward 68
Cooke G. H. 69	Reinberg Peter 68
Coolidge Bros. 56	Robinson H. M. & Co. 68
Cottage Gardens 54	Rochrs Julius 56
Dilger Wm. 70	Rolke August & Son 56
Dreer H. A. 58-75	Ruxton Floral & Nursery Co. 56
Dysart R. J. 56	
Elliott Wm. & Son. 57	Safety Automatic Ventilating & Heating Co. 75
Esler J. G. 74	Sander & Sons. 56
Ernest W. H. 74	Schillo Lumber Co. 74
	Scollay John A. 75
Farquhar R. & J. & Co. 58	Scott John 56
Fenrich J. S. 71	Sharp Partridge & Co. 74
Fletcher F. W. 57	Shayler E. G. 57
Ford Bros. 70	Sheridan W. F. 70
Fromow W. & Sons 56	Siggers E. G. 74
Ghormley W. 70	Skidelsky S. S. 54
Grey T. J. & Co. 58	Stofford N. Co. 74
Gurney Heating Mfg. Co. 75	Stearns A. T. Lumber Co. 74
Guttman Alex. J. 71	Sutherland Geo. A. 74
	Suzuki & Hida. 56
Hall Asso. 74	Sweeney Edward 57
Hammond J. A. 71	Sylvester H. H. 74
Henderson Mfg. Co. 75	Situations & Warnings. 67
Hews A. H. & Co. 74	Teas E. Y. 57
Hippard E. 71	Thorburn J. M. & Co. 58
Hub Engraving Co. 58	Trendley & Schenck 71
Hunt E. H. 68	Vaughan and Sperry 68
Johnston Heating Co. 75	Vaughan's Seed Store 58
Jones Thomas. 56	
Joynt John. 57	Walsh M. H. 57
Kastine W. F. 71	Ward Ralph M. Co. 58
King Construction Co. 75	Watson G. C. 58
Kiskadee A. 74	Weber F. C. 69
	Weber H. & Sons 54
Lager & Hurrell 56	Welch Bros. 71
Lang Julius 70	Weiland & Rich 71
Lehmig & Winnfeld 56	Wietor Bros. 56
Leuthy A. & Co. 56	Wilde G. J. 57
	Winterich C. 68
Metropolitan Material Co. 75	Winteron E. F. 68
McCarthy N. F. & Co. 68	Yalaha Conservatories 69
McConnell Alex. 70	Young & Nugent 69
McKellar Charles W. 68	Young Thos. Jr. 70
Michell H. F. 58	Young A. L. & Co. 71
Michigan Cut Flower Exchange 70	Zenzel D. 58

Buyers' Directory and Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston
For page see List of Advertisers.

Joseph Breck & Sons.

51 & 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Hida, 31 Barclay St., New York
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia
For page see List of Advertisers.

BEGONIA GLOIRE DE LORRAINE.

Julius Koehrs Co., Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York
For page see List of Advertisers.

Joseph Breck & Sons, 47-51 N. Market St., Boston
French and Dutch Bulbs.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Plants for Fall delivery
For page see List of Advertisers.

John H. Sievers & Co., 1251 Chestnut St., San Fran-
cisco, Cal.
Hannah Holart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago
Field Grower.
For page see List of Advertisers.

H. Weber & Sons, Oakland, Md.
White Carnation, My Maryland.
For page see List of Advertisers.

CELEPY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Defiance, O.
For page see List of Advertisers.

Lehmig & Winnfeld, Hackensack, N. J.
Cyclamen argenteum.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.
H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.
Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers.
Vaughan & Sperry, 60 Wabash Ave., Chicago.

FERTILIZERS.

W. Elliott & Sons, New York.
Peruvian Guano.
For page see List of Advertisers.

E. H. Hunt, 76-78 Wabash Ave., Chicago.
Bone Meal and Sheep Manure.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York
For page see List of Advertisers.

J. H. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York
For page see List of Advertisers.
Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves.,
Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 43 W. 25th St., New York
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th & M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GARDENIA VEITCHII.

A. T. Boddington, 342 W. 14th St., New York.

GLASS.

Sharp, Partridge & Co., 22d and Union Place, Chicago.
For page see List of Advertisers.

George C. Watson, 1614 Ludlow St., Phila.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

B. B. & E. J. Chandler, Hyde Park, Mass.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burham, Hinchings, Pierson Co., 1133 Broadway,
New York
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Safety Auto V. & H. R. Co., Lake George, N. Y.
Greenhouse Ventilators.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk St.,
Chicago.
For page see List of Advertisers.

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GREENHOUSE B. MATERIAL. Continued.

Adam Schillie Lumber Co.
Weed St. and Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers

Michigan Cut Flower Co., 38 & 40 Miami Ave., Detroit, Mich.
Fancy Ferns.
For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.

HARDY HERBACEOUS PLANTS.

M. S. Walsh, Woods Hole, Mass.
For page see List of Advertisers

HELP.

Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham, Hitchings, Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers

Herendeen Mfg. Co., Geneva, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

Johnston Heating Co., St. James Bldg., New York.
For page see List of Advertisers.

HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For summer blooming.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York
For page see List of Advertisers

LAUREL FESTOONING.

Crowl Fern Co., Millington, Mass.

LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.
For page see List of Advertisers.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York
For page see List of Advertisers

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MASTICA.

Joseph Breck & Son, Boston
For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St., New York
Pure Culture Spawn.
For page see List of Advertisers.

NEW SPHAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya Schroedene.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
For page see List of Advertisers.

Thomas Jones, Short Hills, N. J.
Cattleya Triane and Gigas.
For page see List of Advertisers.

PANSY SEED.

H. F. Michell Co., 1008 Market St., Philadelphia
For page see List of Advertisers

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosendale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Beitemeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

ROSES.

Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
English-Crown Roses.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.
Young Roses.
For page see List of Advertisers.

Roux Floral Co., Erie, Pa.
For page see List of Advertisers.

Rose Killamey, Siebrecht & Son, New Rochelle, N. Y.
Pittsburg Rose & Carnation Co., Gibsonsia, Pa.
Young Stock.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Dons Zirnfeld, Needham, Mass.
Zirngel's Giant Pansies.
For page see List of Advertisers.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany. Estab. 1780. High Grade Grass, Clover, and Tree Seeds

Johnson & Stokes, 217-19 Market St., Philadelphia.
Giant Pansy Seeds.

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

SPRAYING ENGINES

Chas. W. Percy, 212 Summer St., Boston.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

London, Hitching, Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

L. C. Moninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland & Co., 34 Hawley St., Boston.

Welch Bros., 16 Province St., Boston

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 385-87 Elliott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, 61 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.
Weiland & Riser, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Jos. S. Feinrich, 48 West 30th St., New York.

Ford Bros., 48 West 28th St., New York.
Wm. Gormley, 57 W. 28th St., New York.

Jas. A. Hammond, 113 West 30th St., New York.
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W. F. Sheridan, 39 West 28th St., New York.

Trendly & Schenck, 44 W. 28th St., New York.
A. L. Young & Co., 54 West 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 Spruce Sq., Philadelphia, Pa.

Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.

Phila. Cut Flower Co., 1516-18 Sanson St., Phila., Pa.
Ed. Reid, 1526 Ransford St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 604 Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

CANADA HARDWOOD ASHES.

John Jovnt, Lakewood, Ont., Can.
For page see List of Advertisers.

BULBS, VIRGINIA-GROWN.

Post Bros., Ettrick, Va.
For page see List of Advertisers.

CUT ROSES.

Phila. Mtn. Pine-Crd. R. & H. Co., 1133 Broadway, N. Y.

For page see List of Advertisers.

P-ONIES.

F. A. Baller, Bloomington, Ill.
For page see List of Advertisers.

P-ONIES.

Edward Swayne, W. Chester, Pa.
For page see List of Advertisers.

P-ONIES.

E. J. Shaylor, Wellesley Hills, Mass.
For page see List of Advertisers.

P-ONIES.

E. Y. Teas, Centerville, Ind.
For page see List of Advertisers.

P-ONIES.

Gilbert H. Ward, Saratoga, Mo.
For page see List of Advertisers.

PANSY SEED.

A. T. Boddington, 342 W. 14th St., New York.
For page see List of Advertisers

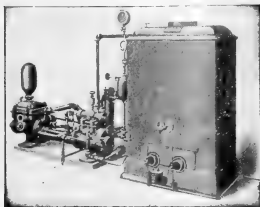
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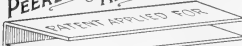
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serviceable second-hand, with threads 2-in.,

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2 1/2-in., 10 cts.; 3-in., 14 cts.; 4-in., 19 cts.; 6-in.,

4-in., 12 cts.

STOCKS AND DIES New No. 1 Threads, 1/2-in.,

1/4-in., 1-in., pipe, \$3.00.

No. 2 Threads, 1 1/2-in., 2-in. pipe, \$4.00.

PIPE CUTTERS New, cuts 1/2-in. to 1-in. pipe,

\$1.00; cuts 1-in. to 2-in. pipe,

\$1.10.

STILLSON WRENCHES New 18-in., grips 1/2-

1/4-in., 1-in., pipe, \$3.00.

\$1.65; 24-in., grips 1/2-in. to 2 1/2-in. pipe, \$4.40;

30-in., grips 1/2-in. to 3 1/2-in. pipe, \$4.75.

PIPE VISES New, flanged, grips 1/2-in. to 2-in.,

pipe, \$2.00.

GARDEN HOSE New, 1/2-in., guaranteed 100-

lbs. pressure, 7 1/2 cts. per ft.; 1/2-

1-in. not guaranteed, 1 1/2 cts. per ft.

HOTBED SASH New. Cypress, 1-ft. x 6 ft., from

50 cts. up; glazed, complete,

from \$1.60 up. Second-hand, as good as new, at \$1.25

and \$1.00 each, complete.

GLASS New, American, 50 sq. ft. to the box;

single, 10 x 12, at \$7.25; old 10 x 12 single

\$1.40. B. Double, 10 x 12 and 12 x 12, at \$2.40. B.

Double, 12 x 14, 14 x 16, 16 x 16, at \$2.60; B. Double,

16 x 20, B. 20 x 24 at \$2.95 a box.

RADIATORS Steam, as good as new

WRITE for our price on Gulf Cypress Building

Material, Ventilating Apparatus, Oil,

White Lead, Putty, Paints, etc.

METROPOLITAN
MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N.Y.

In writing advertisers, mention HORTICULTURE

SEND FOR

New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

SEND FOR CATALOGUE OF

SCOLLAY HOT WATER

and STEAM BOILERS

JOHN A. SCOLLAY

73 and 75 MYRTLE AVENUE

Borough of Brooklyn, N. Y. City

Holds Glass

Firmly

See the Point & Peerless

PEERLESS

Glazing Points are the best.

No rights or lefts. Box of

1,000 points 75 cts. postpaid.

HENRY A. DREER,

214 Chestnut St., Phila., Pa.

FULL SIZE
N P 2

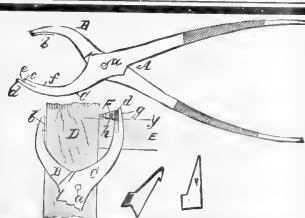


Automatic Greenhouse VENTILATORS

From \$25.00 up. Send for circular

The Safety Automatic Ventilator and Heat

Regulator Co., Lake George, N. Y.



THE OLD RELIABLE

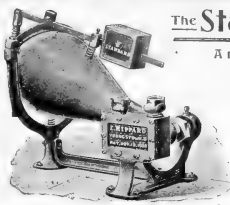
Chandler Glazing
Point and Pincers

Roofs glazed eighteen years ago are still intact.

Don't glaze until you write for samples and particulars. 300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER

HYDE PARK, MASS.



The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio



MASTICA

FOR
Greenhouse Glazing

USE IT NOW.

Joseph Breck & Sons
CORPORATION

AGENTS

We are the Manufacturers
Distributing Agents for
Boston and Vicinity.

JOSEPH BRECK & SONS

CORPORATION

47-54 North Market Street

Boston, Mass.

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GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

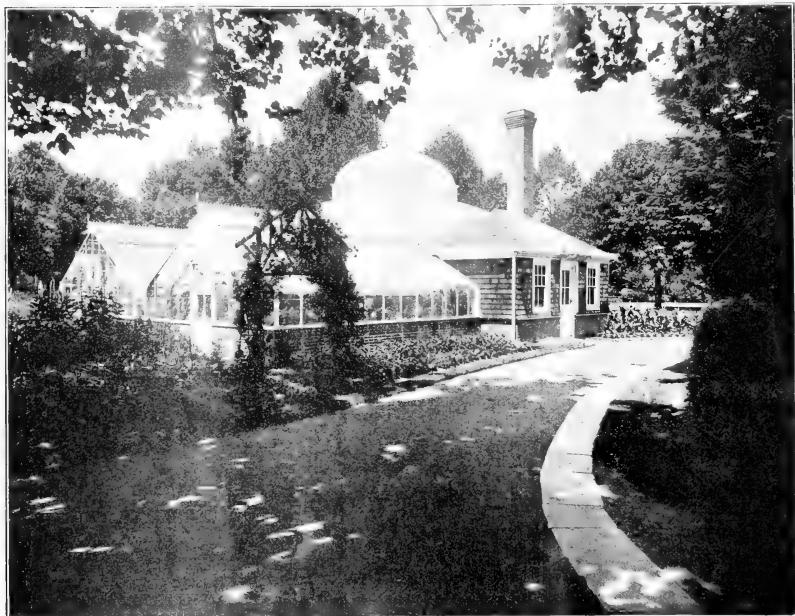
HEATING APPARATUS

JOHNSTON HEATING CO., 1133 BROADWAY,

Erected complete, or we will furnish the material with plans

St. James Building

NEW YORK



GREENHOUSE ERECTED FOR CHARLES W. MCCUTCHEN, PLAINFIELD, N. J.

**LORD & BURNHAM COMPANY
HITCHINGS & COMPANY and
PIERSON-SEFTON COMPANY**

Announce to their patrons and others that they have consolidated under the name of the

BURNHAM HITCHINGS PIERSON CO.

With offices in NEW YORK at 1133 BROADWAY and a Branch Office in the TREMONT BUILDING, BOSTON.

All incomplete contracts will be executed by this company and the active members of the constituent companies will continue in its management.

As is well known, these three concerns possess all the best features of greenhouse construction and its kindred branches. Consequently the new company, by combining the best patented features of the different constructions, and in view of the many economies in operating the designing, sales, advertising, purchasing, and manufacturing departments, is now able to offer work of improved character on a closer basis than when operating separately.

Manufacturing practically everything in their own works and carrying large stocks of finished and unfinished materials, they solicit your patronage and assure you that their best services are at your command.

Burnham Hitchings Pierson Co.

1133 BROADWAY, NEW YORK

HORTICULTURE

Vol. II

JULY 22, 1905

No. 4



IN THE RHODODENDRON DELL AT KEW

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Carnation Plants

Strong, bushy, field-grown plants, well rooted for delivery on and after August 1st, of the following tried and tested varieties:

Boston Market
Queen
Enchantress
Queen Louise

Bradt
Prosperity
Indianapolis

Floriana
Flamingo
Lawson
Vesper

WRITE FOR PRICES

Our plants are from the grounds of the largest and most up-to-date growers.

SAMUEL S. PENNOCK

The Wholesale Florist of
PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

MY MARYLAND

Was the sensation of the Chicago Exhibition. Easily outranks any other white. Awarded first-class Certificate of Merit by the American Carnation Society, Lawson Bronze Medal for 100 blooms and S. A. F. Bronze Medal for 50 blooms. We predict that this variety will easily displace any other white. We are booking orders now for delivery January 1906. Price \$2.50 per doz.; \$12 per 100; \$100 per 1000. Write us for other new and standard varieties.

H. WEBER & SONS, Oakland, Md.

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Field Grown Plants "FIANCEE"

\$15.00 per 1000. \$125.00 per 1000.

CHICAGO CARNATION CO.
JOLIET, ILL.

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S. S. SKIDELSKY

824 No. 24th St.
PHILADELPHIA

CORRESPONDENCE SOLICITED

In writing advertisers, mention HORTICULTURE

ROBT. C. PYE

Carnation Grower

NYACK, N. Y.

In writing to advertisers, mention HORTICULTURE

If you offer the right goods in the right way in these columns, you will not lack for customers.

ROSES

Ready to bench
BRIDE
BRIDESMAID
IVORY
Fine 3-inch stock

\$5.00 per 100; \$45.00 per 1000; 25 at 100 rate; 250 at 1000 rate. Cash with order or satisfactory references.

The Roses we offer are from Healthy Grafted Stock

Baur Floral Co., Erie, Pa.

Advertising well placed hits the nail on the head every time. Let us help you to make business good.

THE COTTAGE GARDENS CO.

INCORPORATED

Horticultural Specialties

Ornamental Nursery Stock Peonies Carnations

C. W. WARD, President. L. C. GOWING, Sec'y and Treas.
Long Distance Telephone: 948 CREDMORR

HANNAH HOBART

**The Pride of
California...**

The grand Prize Winner in competition with the latest and very best products in Carnations, East or West, for the last eight years.

Mr. John A. Palmer, of Cle Elum, Washington, wrote, after his visit to our nurseries in January, 1902, an article which appeared in the AMERICAN FLOWER of February 1902, as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different; in this respect it most resembles the old Jubilee, but of course the color is different. I saw two large houses of it at Sievers', and the sight is one long to be remembered; hundreds of blooms and not a poor one in the lot, and every one the exact counterpart of the other; no bursted calyxes, but every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and if needing verification, the simple assertion that the flowers of this magnificent variety have been sold wholesale as high as \$1.00 per dozen, and more, less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

The constant inquiry by every one who has seen the plants in flower is "When will the Hannah Hobart be for sale?" This led us at last to the conclusion to distribute the same next year, and we are ready to book orders from now on for delivery beginning January 1, 1906. Send your orders in early as they will be filled strictly in rotation.

PRICE, \$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO., 1251 Chestnut St., SAN FRANCISCO, CAL.

HORTICULTURE

VOL. II

JULY 22, 1905

NO. 4

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

SUBSCRIPTION PRICE

ONE YEAR, IN ADVANCE	\$1.00
TO FOREIGN COUNTRIES	2.00
SINGLE COPIES05

ADVERTISING RATES, NET

PER INCH, 3 COLS. TO PAGE	\$.90
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HALF PAGE	12.00
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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE — Rhododendron Dell at Kew		NEWS OF THE CLUBS AND SOCIETIES	
A WHITE CATTLEYA GIGAS— Illustrated — Lagor and Hurrell	83	American Carnation Society	93
A CORRECTION — Oscar Hay	83	American Pomological Society	90
CULTURE OF CŒLOGYNES — J. W. Goodlyier	83	Gardeners' and Florists' Club of Boston	90
ROSA SETIGERA — Theodore Wirth	84	Society of American Florists	93
PROPAGATION OF AZALEA NUDIFLORA — Jackson Dawson	84	Florists' Club of Philadelphia	93
THE HARDY FLOWER GARDEN — T. D. Hatfield	85	St. Louis Florists' Club	93
EXECUTIVE COMMITTEE OF AMERICAN ROSE SOCIETY AT HARTFORD — Illustration	85	Chrysanthemum Society of America	96
CARNATION DISEASES — R. L. Adams	86	Kentucky Society of Florists	96
STOCKS — Denys Zirngiebel	86	CUT FLOWER MARKET REPORTS	
BRITISH HORTICULTURE — W. H. Adsett	87	Boston, Buffalo, Chicago, Cleveland, Indianapolis, Louisville, Montreal, Newport, New York, Omaha, Philadelphia	91
EDITORIAL	88	MISCELLANEOUS	
OBITUARY — Louis Siebrecht, Duncan McGregor, George Croucher	89	Personal	89
		There is Room for It	89
		Hydrangeas in Newport	89
		Outing of Johnson & Stokes Employees	96
		Philadelphia Happenings	93
		Philadelphia News Notes	93
		Business Changes	93
		News Notes	93

NEXT WEEK SOMETHING ABOUT SWEET PEAS

LOCAL CORRESPONDENTS

BUFFALO, N. Y. — E. C. Brucker, 385-87 Ellicott St.
CHICAGO, ILL. — Fred Lautenschlager, 2597 N. Ridgeway Av.
CINCINNATI, O. — Albert J. Gray, 129 E. 3d St.
CLEVELAND, O. — A. L. Hutchins, 38 Plymouth St.
DENVER, COLO. — N. A. Benson, 1352 So. Sherman Ave.
INDIANAPOLIS, IND. — George B. Wiegand, 1610 N. Illinois St.

LOUISVILLE, KY. — F. L. Schulz, Jr., 1325 Cherokee Road
MONTREAL — Edgar Elvin, 136 Peel St.
NEWPORT, R. I. — David McIntosh, Ledge Road
PHILADELPHIA, PA. — George C. Watson, 1614 Ludlow Street.
PROVIDENCE, R. I. — T. J. Johnston, 171 Weybosset St.
SAN FRANCISCO, CAL. — Luther Monnette, 1100 Van Ness Ave.

HYDRANGEAS FOR SUMMER BLOOMING

We grow these largely, and have a magnificent stock of large-sized plants in tubs and barrels. Plants are now covered with buds and are just beginning to show color, and will be in full bloom during July and August. These plants are splendid for decoration of the lawn, and are used largely at seaside places and other summer resorts. There is nothing that equals them for summer decoration during July and August.

Fine Plants in tubs, \$2.00 and \$3.00 each according to size.

Very large specimens in half-barrels, \$7.50 each.

These plants can be shipped by freight with perfect safety to any point. We ship large quantities every year as far north as Bar Harbor, Maine.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

In writing to advertisers, kindly mention HORTICULTURE

PANSY SEED

Boddington's "Challenge," a mixture of the choicest strains of 5 leading Pansy specialists of America and Europe. All large flowers of good substance in an infinite variety of color and markings. New Crop Seed ready July.

Trade packet, \$1.00; 1/2 oz., \$2.00; oz., \$5.00

MIGNONETTE SEED

Boddington's "Majesty," the finest of all fancy varieties of Mignonette, an improvement on "New York Market." Seed saved only from selected spikes under glass.

Per trade packet of 2000 seeds, \$1.00

Arthur T. Boddington,
Importer Seeds, Bulbs and Plants

342 West 14th St., New York

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ROSES

	2 1/2-inch		2 1/2-inch	
	Per 100	Per 1000	Per 100	Per 1000
Am. Beauties	\$5.00	\$45.00	\$7.00	\$65.00
Chateau	3.00	30.00	3.00	30.00
Uncle John	4.00	35.00	5.00	45.00
Golden Gates	2.50	20.00	4.50	40.00
Blends	3.50	30.00	5.00	45.00
Brides			5.00	
Sunrise			5.00	
	Per 100	Per 1000	2 1/2-in Per 100	Per 1000
Stevia R.C.	\$1.50	\$12.50	\$2.50	\$22.50

POEHLMANN BROS. CO., Morton Grove, Ill.

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Palms, Ferns And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crotons etc., etc.

WHELESTER PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters

Growers and Dealers

PERKINS STREET NURSERIES

Roslinale - Boston, Mass.

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STRONG 2 1/2-IN. STOCK from BENCH

NEPHROLEPIS BARROWSII

\$25.00 PER 100

Scott's Ferns 10.00 per 100

See display ad. in HORTICULTURE May 6th.

HENRY H. BARROWS & SON

WILHELM, MASS.

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We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years.

JOHN SCOTT

Keap St. Greenhouse, Brooklyn, N.Y.

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CATTLEYA SCHROEDERAE

The Easter Cattleya

We take pleasure in announcing to our customers the arrival of the above superb Cattleya in perfect condition. Also Cattleya Trianae, C. labiata, C. Warneri, C. gigas, C. granulosa, Miltonia Morelana, Burlingtonia fragrans, Laila ancers and L. autumnalis atro-rubens. Write for prices.

LACER & HURRELL

Orchid Growers and Importers SUMMIT, N. J.

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BEGONIA 'GLOIRE de LORRAINE'

Thrifty, healthy, and clean. 2-in. stock, \$12.00 per 100. For August Delivery.

JULIUS ROEHRS CO., EXOTIC NURSERIES
RUTHERFORD, N. J.

Orchids

Largest Importers, Exporters, Growers and Hybridists in the World

Sander, St. Albans, England

Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importer of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for PRICES

In writing to advertisers, mention HORTICULTURE

Roses Asparagus, Ferns

	Per 100
300 Bridesmaids, 2 1/2-inch pots	\$3.00
200 Golden Gates, 2 1/2-inch pots	3.00
700 Perles, 3-inch pots	4.50
600 Ivory, 3 1/2-inch pots	4.00
500 Bridesmaids, 3-inch pots	4.00
500 Asparagus Comorensis, 2-inch pots	2.50
25 Asparagus Comorensis, 3-inch pots	4.00
2000 Asparagus Sprengeri, 3-inch pots	2.00
300 Pteris cretica albo lineata, 2-inch pots	2.50

Ruxton Floral and Nursery Co.

RUXTON, MD.

In writing to advertisers, mention HORTICULTURE

Cyclamen Giganteum

Our well known strain in four separate colors. Fine, strong, healthy stock

3 1/2-inch at \$12.00 per 100
3 1/2-inch, stronger, at \$15.00 per 100

SATISFACTION GUARANTEED

Lehnig & Winnefeld
HACKENSACK, N. J.

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CYCLAMEN PLANTS Giganteum strain

Seed taken of only selected flowers and well built stock. None better.

Twice transplanted, \$3.00 per 100, \$25.00 per 1000.
3-in. \$7.00 per 100, \$65.00 per 1000.

Seed of above strain new crop \$6.00 per 1000

C. WINTERICH, Defiance, Ohio

PURE CULTURE MUSHROOM SPAWN

Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs. Information as to Special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh imported, 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



CLUCAS & BODDINGTON CO.

131 WEST 23d STREET, NEW YORK CITY
PALISADE NURSERIES, SPARKILL, N. Y.

Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

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ENGLISH CROWN

ORNAMENTAL NURSERY STOCKS, HARDY RHODODENDRONS, ROSES Hybrid Perpetuals and Teas, Climbers, Ramblers, etc., Manetti Stocks, all in prime quality. Full lists of Spring 1905 delivery. Ask for our trade list, address our American agents

AUGUST RÖLKER & SONS, 31 Barclay St., New York, or P. O. Box 752

W. FROMOW & SONS, Bagshot, England

PURE CANADA HARDWOOD ASHES

THE BEST AND MOST LASTING FERTILIZER

Good buyers know where to get good quality. Below is a sample of the orders I am booking.

My Dear Mr. Joynt:—

New York, June 16th, 1905
According to our conversation to-day you may ship me 3 large car loads of ashes to Kenosha, N. Y. I want 1 car load to spread on 40 acres of land that I intend to sow to rye this fall, and 2 car loads for our Cemetery. Be sure you send me the Joynt brand. Very truly yours, (sgd.) Reese Carpenter, Comptroller

Write for prices and information to JOHN JOYNT, Lucknow, Ontario, Canada

M. H. WALSH Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties; Strong Flowering Plants; Hybrid Tea Roses, the best and hardiest varieties; New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha. Strong, field-grown plants to flower next summer. Best varieties Paconies, Phlox, and Hollyhocks.

Catalogue describes all the above.

In writing to advertisers, mention HORTICULTURE

Daisies, Daisies and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity (October 1st to July 1st).

EDWARD C. AUBURNDALE
Stall 1, Boston Flower Market, Park St.

PEONIES

WHITE, generally called Queen Victoria has been known to keep 6 weeks in cold storage, \$9.00 per 100, \$90.00 per 1000.

FRAGRANS, the tall grower and bloom producer \$4.00 per 100, \$50.00 per 1000. For prices on other varieties including Festiva Maxima write

GILBERT H. WILD, Saratoga, Mo.

WANTED M. LOUISE VIOLETS GOOD STOCK

Quote Prices to

EDWARD SMITH, LEXINGTON, MASS.

CHRYSANTHEMUMS

WANTED AT ONCE

One thousand rooted cuttings, or 2 in. plants of WHITE BONNAFFON Chrys. Address, stating price.

J. NEWMAN & SONS, Corp'n.

51 TREMONT STREET, BOSTON

BULBS

DE NIJS BROTHERS

WHOLESALE
BULB GROWERS

HILLEGOM, HOLLAND

Headquarters for High Class

HYACINTHS, TULIPS,
CROCUSES, DAFFODILS, FANCY
NARCISSI AND PÆONIES

Price List Free on Application

STRICTLY WHOLESALE

BULBS VIRGINIA-GROWN

Emperor - - - - \$14.00 per 1000

Prinsepae - - - - 5.00 "

P. Ornatus - - - - 4.00 "

Write for special price on large quantities.

POAT BROS., Ethric, Va.

Consult the Buyers' Directory on Pages 96 and 97 for information as to where to buy the right goods at the right prices.

CELERY PLANTS

Ready July 1st, sharp. 25,000 Early Giant Pascal. \$4.00, finest in the country. Transplanted, 10c. per 1000; from the seed now in the field, \$3.00 per 1000. No better stock for private or commercial growers can be found. . .

COOLIDGE BROS., So. Sudbury, Mass.

Asparagus Seedlings

From flats. Well grown and healthy.

Plumous Nanus, \$10.00 per 1000

Sprengeri \$10.00 per 1000

Large 3-inch Plumous Nanus, \$5.00 per 1000

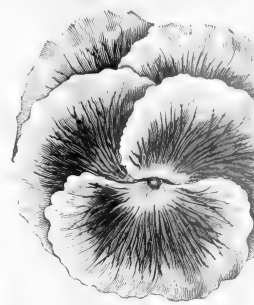
Cash with order, prepaid. Get our prices on large lots

Yalaha Conservatories, Yalaha, Lake Co., Fla.

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POPULAR PANSIES

If you're for the Best English, French and German Strains



JOHNSON & STOKES' KINGLY COLLECTION

This strain is absolutely unsurpassed in size, texture, form, and range of magnificent colors. 1000 seeds, 50c.; 2000 seeds, 90c.; 5000 seeds, \$1.00; per ounce, \$5.00.

Large trade pkg. (2000 seeds) 02.

Azure blue \$0.20 \$0.75

Belgian striped 20 75

Black (Faint) 20 75

Bronze shades 20 75

English, large flowered, fine mixed 20 1.00

Empress Frederick new, dark red 20 75

Empress William, ultramarine blue 20 75

English, large flowered, fine mixed 20 1.00

Fire dragon, fiery orange and bronze 20 75

French, large flowered, fine mixed 20 75

Lord Beaconsfield, deep purple violet 20 75

Other, extra large flowered, rich colors 20 1.00

Prince Bismarck, beautiful golden bronze 20 75

quadriflor or pleasant's eye, variegated 20 75

Snow Queen, satiny white 20 75

Striped and mottled, large flowered 20 75

Improved Giant Triumphant, mixed 20 1.00

Gold margined 20 75

Giant white, with dark eye 20 1.50

Giant yellow, with dark eye 20 1.50

Giant black-blue new 20 1.50

Giant black 20 1.25

Giant azure blue (Empress William) 20 1.25

Giant striped 20 1.25

Havana brown 20 75

Cassini's giant, five flowered 40 1.00

Masterpiece, a new large flowered variety with curled petals of compact

habit, great substance, and contain

ing many rich colors 40 1.50

Meteor new, bright brown 20 75

Peacock, ultramarine blue, deep chart

and white 20 75

Red Victoria (new), very fine 20 1.00

White, pure 20 75

Yellow, pure 20 75

Pine, mixed 15 60

Fine English, mixed 20 75

Imperial German, mixed 20 1.00

Giant Madame Perceval 40 1.50

JOHNSON & STOKES

217-219 Market St., PHILADELPHIA, PA.

LILIES, JAPANESE PLANTS

BAMBOO STAKES

SUZUKI & IIDA

31 BARCLAY ST., NEW YORK

In writing to advertisers, mention HORTICULTURE

JAPAN CANES

6 Ft. Long

TOUGH AND DURABLE

lots of 2000 only \$10.00

W. ELLIOTT & SONS, NEW YORK

In writing to advertisers, mention HORTICULTURE

Robert J. Dysart

Public Accountant and Auditor

Simple methods of correct accounting

especially adapted for florists' use.

Books, Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58

CAPTAINS ISLAND

LILIUM HARRISII, Never Looked Better

We are in possession of a shipment which arrived July 15, and are offering in case lots only, while they last
5 to 7, 400 to a case
7 to 9, 200 to a case

All Correspondence Address to Auction Dept't.

W. ELLIOTT & SONS

NEW YORK

Thorburn's Bulbs

We are now booking orders for

LILIUM HARRISII
LILIUM LONGIFLORUM
ROMAN HYACINTHS
Paper WHITE NARCISSUS, etc.

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The accompanying cut shows a *Cattleya gigas* with pure white sepals and petals; the lip is of a beautiful lilac and with a whitish margin. Albino forms of *Cattleya gigas* are extremely rare, and hence it may prove of interest to some of your readers. The plant has just flowered with us from a lot of plants imported some time ago.

LAGER & HURRELL.

A Correction

TO THE EDITOR OF HORTICULTURE.

Dear Sir:—On reading your estimable paper, I saw something about my carnations which I would like to have corrected. The number of flowers cut is correct as given, but fertilizer was not used quite as freely as ten pounds a hundred square feet a bench every ten days. I used from six to ten pounds every ten days for a certain period, of a special mixture, and the results were very good. This correction is for the information of anybody that might like to experiment with fertilizer and by following the first-published advice would be overdoing it.

If anyone would like to know more about how to use it in detail and what to use, I will be pleased to offer advice. It works equally well on roses and all kinds of plants.

Dear Henry

Hingham, Mass.

Culture of *Cœlogyne*s

Editor HORTICULTURE:—Will you kindly ask some of your orchid-growing contributors to give some hints on potting and growing *cœlogyne*s? How and in what material to pot them (newly imported plants)? How much water? Shade or full sunshine? How much rest, and when? And any other information the contributor may be kind enough to give.

Respectfully yours.

"GREENHORN."

Greenhorn does not name the species of newly-imported *cœlogyne* he has. This very interesting family of the orchid world has numerous varieties, all of them when in bloom more or less interesting and beautiful on the plants, but the flowers have no lasting qualities in a cut state. They all succeed in a mixture of half peat and half sphagnum moss. Some species require abundance of heat and moisture, while others succeed well with ordinary greenhouse treatment, especially *Cœlogyne cristata*, which is the best known of them all, and perhaps is the one Greenhorn refers to. It is very cheering to see, in the early spring, a well-grown plant covered with its snow-white flowers and certainly no orchid is more charming at this season. But it is rather a bad orchid to establish when newly imported for the bulbs always shrivel up so much during transit from their native habitat. When the imported plants are received, all the decayed portions and long roots should be cut away. It is then a good plan to put several pieces together in one pan, placing the leads here and there toward the center, and pot firm, but water very sparingly for a time. Give the plants a spray-over once or twice a day, and keep a nice moist atmosphere by frequent damping between the pots. They do well grown cool during the summer months, but do not need much shade. In the fall they are all the better if given a good sunny position in the cattleya house, and at this stage of their growth they require abundance of water at the root. About the end of September, if the plants have been treated right, the flower spikes will be seen to be pushing from the new bulbs, and then is the time a little care is needed in watering. Only sufficient water should be given to keep the bulbs plump, for if the plants are kept too wet at the roots at this period the spikes often turn to growth instead of flower and so it is safer to keep them on the dry side till the spikes are well advanced, or till the turn of the year. It is also a good plan to rest them for a time after flowering, and on no account must they be disturbed at the root by repotting too often, for they appear to flower all the better when pot-bound, even if some of the leads are away over the side of the pans.

J. W. Goodier

Rosa setigera (Michigan or Prairie Rose)

This beautiful wild rose is at date of this writing at about its best, and deserves for its numerous good qualities a place of honor in every rose garden and in all shrubby plantings. Through its vigorous growth and climbing habit it is apt to crowd out other plants, but the beautiful effect produced by its unrestricted growth amongst other shrubbery and small trees, throwing out its flower-set short branches from amongst other foliage, is simply grand. I have seen it grow over a pin oak fifteen feet high inside of two years, and the very loose corymbs of blossoms surrounded by the light green leaves, projecting and hanging out from the dark-green, glossy foliage of the oak in a rambling natural fashion, made a picture inviting enough for the keenest painter of floral life.

Recognizing its qualities as a strong climber and free bloomer, we made use of the *R. setigera* for the covering of some arches twelve feet high in our new rose garden. The plants were two years old when planted in the spring of 1904, and they are now fully ten to twelve feet up, as the accompanying photograph will show. The flowers appear in few-flowered corymbs, the latter far enough apart to give the whole structure a graceful, loose appearance, enhanced through fine foliage. The color of the blossom is deep-rose, fading through pink to whitish, and this effect of those well-blended, harmonious

colors is, to my eye, far superior and more beautiful than the solid crimson of the *Crimson Rambler* or the fine pink of *Dorothy Perkins*, rich as they are in their glorious garb of blossoms.

The *Prairie Rose* is now in bloom for the last two weeks, and will last at least that much longer, for although the individual florets fade away fast enough, there are new buds opening as fast as the others pass away, and it is just the different shades of color of the fresh and passing flowers which are so pleasing and refreshing to the eye.

I consider *Rosa setigera* a most valuable climbing rose, and, to the good qualities already mentioned, we may add that it is very hardy and remarkably free from insects, and not subject to mildew. Its strong growth would suggest that it might be a good stock plant to bud on and, by the way, why can not such strong growing climbers be used for high and numerous budding on especially selected long branches? If the *Baby Rambler* is such an ever-bloomer, why not bud it on the vigorous branches of the *Crimson Rambler* and have something to show the season through?

Therrell Wirth

Propagation of *Azalea nudiflora*

Editor HORTICULTURE:—Can the wild azaleas, *nudiflora* and its kindred, be propagated from summer growth cuttings? I find occasionally one along banks of streams, but they are, as a rule, scraggy specimens not likely to live if transplanted. I am trying layering in one instance where several sprouts start from the base, but would like to propagate from cuttings if possible. I suppose if the native bushes can be propagated in this way the same process will do for *A. mollis*; the latter can be increased rapidly by planting low and banking up earth. P.

Azalea nudiflora can be propagated by half-ripe wood in summer under a bell-glass or close frame, but this process is slow and requires several weeks and much care. They can also be propagated by hillock layers or by stolons. The most rapid way to propagate them is by seed. Collect seeds in October, and sow in well-drained pans of sphagnum moss in January under heat, and transplant in well-drained pans of sandy loam and peat. As soon as the first rough leaf appears grow on in close, moist, heat under glass until the first of September when they should be gradually hardened off to try. They stand

the winter in a cold pit. If they have been frequently transplanted during the summer, they will be several inches high by September, far exceeding the growth from cuttings. Of course, in the case of an extra firm variety the cuttings, layers, or grafting is the only course to pursue to retain the special variety. Side-grafting on stock previously potted can be done in close frames in August, having the plants established in pots some time previously.

Azalea nudiflora is found in considerable quantities in different parts of the United States, especially in western Massachusetts, also Connecticut and Long Island, New York, and is not at all difficult to transplant provided care is taken in lifting it. Old plants should be well cut back and planted in the nursery until they become shapely. There are hundreds of them in the Arboretum three and four feet high, loaded with blossoms in their season, that were so collected and treated as stated above.

Jackson Dawson

The Hardy Flower Garden

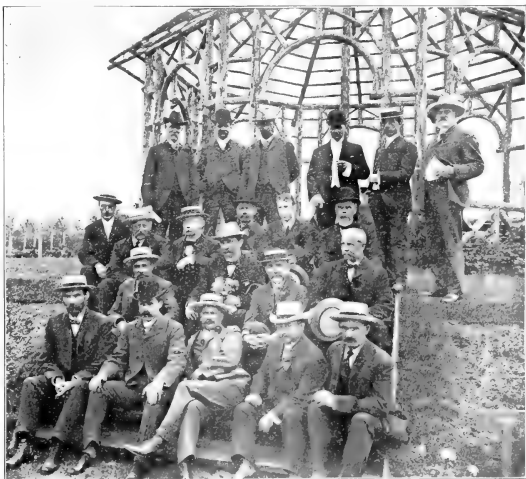
The hardy flower garden is interesting at any time; from the time the first crocus blooms, until the last asters—*A. Shortii*, and *A. spectabilis*, which carry the season from April until late October. It is probably more interesting now than at any time—not that the wealth of bloom will be less later, when the phloxes and large composite bloom—but because now everything is fresh and green. Later we shall be cutting down larkspurs which are past, sweet williams, foxgloves, and many other things. Oriental poppies—gorgeous while they last, leave a complete blank in a week or two. It requires quite a little management to fill their places for the remainder of the season. Those looking for plants which make a display at this season, will do well to take notes now.

For the front rank *Stellaria Holostea*, a member of the chickweed family, but happily not quite a weed, is just going out of bloom. Bright patches have been conspicuous for a few weeks past. Its star-shaped white flowers are abundantly produced. The plant is increased by division at any time during the growing season. *Dianthus deltoides*—the "maidens pink" is very bright, with small, deep pink flowers. They are small, but make up in numbers. Some plants escaped into a near-by lawn and look quite pretty in grass; here is a suggestion. Forms or varieties of *D. annulatus*, *D. arenarius*, *D. cæsius*, *D. atrorubens* and other Alpine species might be added. *Ajuga genevensis* is the brightest and best of all the bugles. It is now a mass of short spikes of deep blue. Varieties of *A. reptans* are other first-rate plants for carpeting the front lines. *Campanula persicæifolia* in several varieties, including the semi-double, in blue and white, is very effective. It is also an excellent plant for cut flowers. *C. Alliaræifolia* is a distinct and interesting species, not quite as showy as the others, but still worth a place. *C. rotundifolia*—the harebell of Scotland—is quite hardy, and exceedingly graceful. It is a weak plant, spreading by underground shoots. *C. punctata* var. from Siberia, is the best of this species we have seen. It is a fairly good white, and the bells are large and finely spotted. It grows about two feet high, and is easily increased from underground shoots. *C. latifolia macrantha* is a noble plant, with large deep blue flowers. *C. glomerata dahurica*, an effective blue, is peculiar among campanulas in that the

heads are bunched. *C. lactiflora*, a tinted white-flowered kind, is very graceful. *C. Carpathica* and *C. Van Houttei* are just coming into bloom.

Anthemis tinctoria is a trifle weedy, but a worthy plant for all that. Its growth is pretty, forming a feathery mat. In bloom it is almost exactly a yellow daisy, and it blooms for the greater part of the summer. Its only defect is that it sows itself too freely. *Malva moschata alba* has a special interest to me as I found it growing wild on a trip to Nova Scotia. I think it ought to have specific rank—I never saw a pink one. Its handsome digitate foliage is attractive when not in bloom. It is more of a biennial than perennial and comes easily from seed. All the wild geraniums are attractive—at any time. We have *G. Richardsoni alba*, a low growing white-flowered kind; *G. macrorrhizon*, also low growing, with purplish, wooly flowers; *G. sanguineum* and vars. *Lancastriense*, striped, and *G. s. album*, white. They have creeping roots, and form dense masses of handsome peltate leaves covered with pink or white flowers for a long time. *G. Wilfordi* is a spreading one with small white flowers, suitable for the rock-garden. *G. sylvaticum*, robust, blue. *G. platypetalum*, in habit like our *G. maculatum*, but with deep blue and larger flowers.

Handsome foliage many of us are apt to overlook in our anxiety for gorgeous bloom. A bold group of *Polemonium ceruleum* is as effective in foliage as bloom; the flowers are blue and white. Seedlings come mixed in color. *Iris dalmatica* is still in bloom. It does not increase so fast with us as the rest of



EXECUTIVE COMMITTEE OF AMERICAN ROSE SOCIETY AT EDWARD H. PARK
ROSE GARDEN, HARTFORD, CONN.

the German irises, but it is a grand one. The first Japanese irises are just in. We wish they had held later, as rose bugs play havoc with them. *Vincetoxicum japonicum*, although a member of a weedy family, is quite handsome. The foliage is light green, and flowers pearly white. Though not exactly a climber, like some of the genus, its long stems are wreath-like, and have been used for garlands quite effectively.

We did not expect our rock roses would live out last winter. A few were left for trial, and all came out well. *Lychins viscaria splendens* is an old-fashioned border plant — very bright for a time. *L. Chalcedonica* is unique in the color of its flowers — scarlet. No border plant is as bright. It can be seen a long distance. It is a good plant to have, takes care of itself nicely, and is nearly always in bloom. After the main crop it can be cut back, like many larkspurs, and it gives a second crop soon after. *L. coronaria Walkeri*, is attractive at any time — from early spring when its masses of grey foliage appear, until it blooms, now. *L. Flos-cuculi* pl. is a pretty little thing for the front, also for the rock-garden. Self-sown seedlings come single and there are white ones among them. Oriental poppies are past; but we have yet some Iceland poppies, which were among our first flowers, and also a few of the Alpine kind, *P. alpinum*. *P. pilosum* is odd. Its color, a satiny drab, takes every one's attention. The old Welsh poppy, *Meconopsis Cambrica*, is very early, with yellow flowers. It is a good perennial. *Centaurea montana*, with deep blue flowers, is very early and lasts a long time. *C. nigra* is just coming in. *C. nigra variegata* has a charming yellow variegation, which could be effectively used in formal gardening.

J. D. Hatfield

Wellesley, Mass.

Carnation Diseases

II

4. RHIZOCTONIA. (ASCOMYCETES)

This is a sterile fungus disease made up of slender threads, several cells long. It reproduces by these threads breaking off and continuing the growth. It is a parasite, spreading through the soil, doing great damage to cuttings, being a form of damping-off. The filaments also work up into mature plants, causing wet stem rot. The affected plants turn green and finally die. The inside is soft and rotten.

Treatment. No remedy is known. Grow plants under the best conditions of moisture, nutrition, and temperature. Absence of freshly decaying vegetable matter in the soil, change of earth frequently, and liming help. Sterilizing soil is a sure preventive.

5. STIGMANOSE OR PUNCTURE DISEASE

This is the so-called "Bacteriosis" but is caused by thrips, aphids, red spider, and leaf hoppers. These

bite into the young leaves, sucking the juices, so that when such leaves are held to the light they show pellucid spots, faint yellow in color. Finally the leaf turns yellow and shrivels up. The insect inserts his sucking organ into the fibro-vascular bundles and in some manner poisons the leaf. Sometimes purple spots are found, these are also made by a little leaf-hopper.

Treatment. Kill the insects by fumigation, and by spraying thoroughly with water under a pressure of twenty to twenty-five pounds.

6. DRY STEM ROT. (FUSARIUM)

The dry stem rot gets into the stems through the soil, working up into the ducts and clogging them, so that the plant dies for lack of nourishment.

It sometimes makes a spot on leaves, but it is not important as the fungus can only gain entrance through the epidermis when it is ruptured.

Rosette is probably due to the entrance of the elliptical spores of the *Fusarium*, during the healing over of the cutting.

Treatment. Sterilize soil. The disease is not very important.

R. Z. Adams

Stocks

Among the most useful plants for the florist are the white and colored stocks of the ten-week varieties. Some years ago, we grew the biennial or intermediate sorts, of which the East Lothian and French Cocardeau were the best types. They made magnificent pot plants and sold well then, but the demand has lessened now and they do not sell so readily. As for cut flowers, the annual or ten-week varieties have taken the place of the above-named as a comparatively short time is required for their coming into bloom. The sorts mostly used for cutting are the white, crimson, and purple shades of the Globe and Column stocks, the Globe blossoming a little longer, and of a more bushy habit than the Column, which makes it better adapted for pot culture and market plants.

While we do not believe in raising stocks as a special crop, financially speaking we have found them useful as an intermediate one, or for filling gaps in case of failure of other plants, such as carnations, etc., and so keep on hand, in winter, a stock of small plants, to be used as needed, as they will come in bloom in a few weeks and, in fact, I do not know of any other plant that will answer the purpose as well and be salable at the same time either for home trade or market purposes. It was our practice, years ago, to raise our own seed, selecting the end pods of the flower spikes, as we found by experience that the lower seed pods did not give us so large a proportion of double flowers, and also using seed two or three years old in preference to the new. Of late years, however, by getting seed of reliable growers, we have had very good results.

Serge Zingisbel

British Horticulture

RHODODENDRONS

At the leading shows, notably at the one held at the Royal Botanic Garden, Regents' Park, indications have been afforded of the magnificence of the rhododendrons secured by the patient work of enthusiasts in this branch. During the last half century a great deal has been accomplished in this direction, until we have a delightful variety of shades. The brilliant effect which can be obtained from a massing of the blooms on undulating ground was demonstrated recently at Regents Park, where Messrs. J. Waterer & Sons, of the American Nurseries, Bagshot, had a quarter of an acre of these popular subjects under canvas. Messrs. Waterer, who cultivate sixty acres of rhododendrons in Surrey, have raised some of the finest specimens now in cultivation. The firm's annual displays at the 'Botanic' Gardens, Cadogan Gardens, and the Thames Embankment, together with the constant introduction of attractive seedlings, have done an immense deal to popularize the American varieties on this side. Continental nurserymen have also borne their share in this work, for one of the best hybrids is undoubtedly Mme. Marie Van Houtte, a name which stands high amongst horticulturists throughout Europe. This is a white bloom, with bronze and gold markings on upper petals, edged with a slight tinge of pink, building up a huge truss full to the last petal.

A FLORAL HEALTH RESORT

Rhododendrons flourish particularly at Bourne-mouth, a sylvan seaside retreat on the Hampshire coast. At Ashton Court, Branksome Park, there is one of the most complete private collections in this country, numbering about six hundred varieties. It is a flowering shrub in every way suited to the soil, locality, and natural environment of that district. It is usually contended that plants which grow in peat require little or no manure, but this plan is not followed out at Ashton Court. The practice is to give the beds and borders a good dressing of well-decayed cow-manure every two years, so that one-half is done one year and the other half the next. This is allowed to remain as a mulch the first year, and in the following year the beds are skimmed over with a spade, and the manure turned in. In addition to cow-manure, this year some liquid is being applied made from ichthemic guano, used at the rate of half an ounce to a gallon of water, giving the plants a good soaking twice at about a fortnight's interval. This is used on plants that appear exhausted through continuous flowering, and seem to need a reviver. It is the custom to water early and often, commencing first with all that have been transplanted the previous autumn, and are carrying plenty of flowering buds. These are given several good soakings during dry spells in March and April.

SWEET PEAS FOR EXHIBITION

A large entry is expected at the show of the National Sweet Pea Society at the Royal Horticultural Hall, on July 4th. On that day — a very appropriate one, by the way — Professor H. J. Webber will lecture on the progress of horticulture in the United States. A foretaste of what will be seen at the show was afforded to-day at the Royal Horticultural Society's exhibition by Mr. Henry Eckford, the veteran raiser of new varieties, of Wem, Shropshire. Mr. Eckford labored to improve the sweet pea years ago, and his work was then depreciated by those who had not his foresight. He has raised some popular varieties which have gained him world-wide fame. At his well-arranged stand to-day were the trio of novelties which appear last on his list. These are Romolo Piazzani, a violet blue; Black Michael, bright reddish maroon; and David R. Williamson, bright indigo blue. These new comers are likely to be much in evidence at the shows. Mr. C. W. Breadmore, another sweet pea specialist, of Winchester, has several new introductions, including George Herbert, an immense bloom of a salmon pink hue; Lady Abedare, a delicate pink; and Dora Breadmore, with well-expanded blooms of pale buff-yellow, slightly tinged with pink. These will be seen at the National show.

A REMEDY FOR CUCUMBER "SPOT"

For some years market nurserymen have been suffering severe losses through the ravages of the cucumber spot disease, and until recently all suggested remedies had been tried and found wanting. Mr. H. D. Ladds, nurseryman, of Swanley, has discovered what he regards as a reliable cure, and arrangements were made a few months ago to conduct some trials. Should the experiments prove successful it was decided that the secret should be purchased from Mr. Ladds. The sum suggested was £1,000, and a fund has been raised to secure this amount. At a meeting of the committee appointed by the growers a resolution has been passed, expressing the opinion of that body "that the application of Mr. Ladd's treatment to diseased houses of cucumbers has enabled the owners of such houses to continue the profitable growing of cucumbers for market, and the committee are of opinion that Mr. Ladd's specific is a valuable one, and fully worth the amount which has been asked for it." The formula is to be made known to those who have subscribed to the fund. It shows the need of a Government Department on this side to deal with matters of this kind. The Board of Agriculture is too busy with sheep and cattle diseases to have any time to look after the interest of nurserymen and fruit growers.

W. H. Adsett.

London, Eng., Feb. 20, 1905.

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DEVOTED TO THE
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GARDENER AND KINDRED
INTERESTS

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Telephone, Oxford, 292

WM. J. STEWART, *Editor and Manager.*

The Editor Has His Say

NEW YORK'S wail over the despoilation of her beloved trees by voracious insects sounds familiar in this moth-infested neighborhood. We extend our sympathy, and hope it may be long before the gypsy and brown-tail are added to her tussock torments.

The time of *Lilium Harrisii* harvest is here. Importers are all ready to open up and distribute shipments as they arrive, and thus begins the first installment of fall activity. They tell us that there is likely to be found in some stocks this season a large percentage of mixed varieties from Japanese seed. We hope, however, that shipments will turn out satisfactorily generally, and that the former prestige of the "true *Harrisii*" may be fully regained. The first essential is that the bulbs are fully matured before digging and it is to be hoped that the desire for early delivery will not be allowed to interfere with this requirement, which means so much to the forcer as well as to the grower and exporter.

If the torrid temperature of the past week doesn't bring prosperity to the seaside and mountain resorts then is their case a hopeless one. For a number of years we have heard but one story—too cool for the summer resorts. The weather man seems bound to make up all deficiencies this year.

What has become of the summer resort flower trade which was such a factor years ago? Boston had the cream in those days. Newport, Bar Harbor, Narragansett Pier and other places far and near were big buyers in the Boston market, and from middle of July until first of September prices soared on anything good in the rose line. Local greenhouses and gardens—commercial and private—now take care of it all and

the Boston wholesaler, instead of shipping to, is now called upon to handle the surplus from these places!

In a previous number, we referred to J. C. Olmsted's protest in his Boston lecture against the monopolizing by a few score people of several hundred acres of meadow land for golf playing. About 44,000 people indulged in the game of golf at Franklin Park last year. Certainly their interests and pleasures are to be considered, but for every golf player there are estimated to be about five hundred other visitors in carriages or afoot. To subject this large portion to the risk of being struck by a ball, thus engendering timidity in women, children, and aged folk, precludes the proper enjoyment and recreative advantages of parks by introducing an element of danger and apprehension. However popular the game of golf, it is not yet sufficiently so to warrant jeopardizing the feeling of security of persons using the parks for their more legitimate purposes. Mr. Olmsted voices a sound and timely sentiment on this matter.

ALTHOUGH we are now in the midst of the vacation period and notwithstanding that the work of the gardener and the florist is sufficiently exacting to entitle him to a care-free holiday relaxation, yet all, and especially the younger men, owe it to themselves and to their profession that the field of literature and science as an auxiliary to education in the theory and practice of horticulture be not neglected. Every hour devoted to good reading on practical subjects is a distinct installment laid by for the future, better than cash in the savings bank. Some are born gifted orators or writers, but for most of us correctness of composition and impressiveness of diction come only as the result of plodding, earnest, up-hill work; none are born expert culturists and in every instance it will be found that the men we doff our hats to for their attainments in this direction have acquired all their proficiency from close application and fidelity to a fixed purpose. In short, he who makes the most of the splendid facilities for self-education that are open to everyone in these days of great opportunity is the man to whom preferment and honor are sure to come.



Thanks to HORTICULTURE, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico, and Cuba, which goes far to prove the value of HORTICULTURE as an advertising medium. We are very pleased with the results of our advertising in HORTICULTURE, and wish every success to the paper and editor.

Respectfully,

A. LEUTHY & Co.



Obituary

LOUIS SIEBRECHT

In the death of Louis Siebrecht the profession has lost another one of its old time growers of specialties for the New York market. He was one of the last of the old Long Island pioneer cut-flower growers, especially in the line of carnations, following close upon Charles Zeller, John Dalkedouze, Gus Messemburg, and several others, all of whom, in their days, were the great carnation growers in the country.

Louis Siebrecht came of a long line of growers and horticulturists and nurserymen in Germany. His ancestors, like those of all the Siebrechts, came originally from the old city of Franken in middle Germany, but it was in the city of Castle, in Northern Germany, where Louis Siebrecht was born, and there served his apprenticeship with his uncle, the late Wilhelm Siebrecht, who was famous in his day for originating many valuable varieties of market plants, amongst which were the Odier pelargoniums. In fact, Wilhelm Siebrecht was the Lemoine of Germany. It was here Louis received his practical education as a gardener and florist. When he had finished his apprenticeship, he worked in some of the large commercial houses in Germany, until the age of 24, when he took a position as head gardener with Baron von Schachten, who has a famous estate at Shafenhäusen near Frankfurt, and which position he occupied successfully for three years. During this time he became engaged to his first wife, Caroline, who was maid to the Baroness, whose displeasure he thereby incurred and was compelled to resign his position, but he took his Caroline with him.

After their marriage, Louis determined to seek his fortune in the New World, and in 1867 came to this country. His first position here was with the late, and then foremost florist of New York, Isaac Buchanan. It was not long before his valuable services and practical knowledge were recognized by Mr. Buchanan, and he was made assistant foreman of the then large establishment at Astoria, Long Island, where the growing of cut flowers was the principal business.

Two years later he took a position as private gardener on Staten Island, which he occupied until 1871, when he entered the employ of Henry A. Siebrecht & Co., then located at the northwest corner of Fifth avenue and Forty-Second street, where he was in charge of the plant and out-door gardening department until 1873, when he established himself at East Hinsdale, his late home, but the name of the place was afterwards changed, through the efforts of former Senator John Lewis Childs, to that of Floral Park. Here Louis Siebrecht built the first year four greenhouses of the then most modern and approved style. These were especially constructed for the growing of cut flowers for the New York market. The stock grown there was one house of Bon Silex and one house of Safrano roses, with bouvardias on the side benches; one house of carnations, consisting of the only two or three varieties then in existence; one house of smilax, and afterwards several variety houses were added. These proved so successful, that the next year several more houses were added, though rose growing was soon abandoned—carnations seemed to do much better. In fact, they became one of the principal products together with the other varieties mentioned. There was also a house of poinsettias, in which were the first poinsettias ever grown in open benches. Then, when poinsettias had been cleared out, Easter stock was put in for a second crop. It is the writer's opinion that Louis Siebrecht was one of the first men who

made his houses yield successive crops in the same season. It was he, too, who first grew in quantity the old-fashioned Lilium longiflorum for Easter, with such a remarkable success, that plants would stand from three and one-half to four feet high, and bear as many as a dozen and fifteen flowers on a single stalk. These bulbs were grown in a cool house in solid beds. The first year the bulbs were allowed to bear only one or two flowers each, and the flowers were cut rather short. Then the bulbs were gradually and properly ripened and matured, and the largest selected for the following Easter season. It was he who brought out the once famous carnation Hinsdale.

Louis, as he was familiarly known, was a most congenial and happy fellow, somewhat odd in his ideas, but his confidence, once gained, he was a true and lasting friend, and would do anything in his power to aid or assist when necessity required. One of his characteristics was his persistency in conquering plants of difficult culture. The writer well remembers that when he undertook the growing of one of the most difficult plants, the *Clinanthus Dampieri*, he vowed that he would grow it to perfection, and he certainly did grow an entire bench of it; and it created quite a sensation.

One of the most unique features of the establishment was his partner, Caroline, his wife. While Louis worked hard in growing flowers, Caroline took them to the market, and there are some of us yet living who will remember the pleasant little woman coming around with a large basket on each arm every morning, except Sundays, rain or shine. Indeed, she was one of the four people who really started the East Thirty-Fourth street flower market, with the late Patrick Smith, Henry Tompkins, and one or two others, with headquarters in Old Dan's coffee-stand.

In those days Louis Siebrecht and his establishment was quite a considerable factor in the florist business. During the early years of the Society of American Florists, Louis attended the annual conventions regularly, and he contributed a good deal of practical knowledge and experience about violet culture, when the dreadful disease of that plant first made its appearance. He made these contributions in a most humorous and jovial manner. A few of the old time florists who survive him and who knew him well, and a host of the younger generation, by all of whom he was beloved, will mourn his loss.

He leaves a widow and nine children, all but three of whom are married. Louis Siebrecht was quite a distant relative of Henry A. Siebrecht and William H. Siebrecht, and was 64 years of age at the time of his death.

HENRY A. SIEBRECHT.

DUNCAN MCGREGOR

Duncan McGregor of the United States Propagating Gardens at Washington, D.C., died at the Sibley Hospital on July 8, after an illness of several months. He was a native of Aberdeen, Scotland.

GEORGE CROUCHER

George Croucher, a well-known gardener and frequent contributor to the *Gardener's Chronicle*, died at his home, Ochertyre, near Crief, Scotland, on June 27, aged 72 years. The collection of conifers under his charge is considered one of the finest in Great Britain.

THERE IS ROOM FOR IT

The device, advertised for the first time in this issue of HORTICULTURE, for accelerating and controlling the circulation of hot water in greenhouses, is well worthy of investigation by every grower who uses hot water heating apparatus. It claims to solve what has hitherto proved a most annoying puzzle for many.

Persona.

W. R. Smith sailed from New York on the *Nunatian*, July 20.

Charles Emslie of Montpelier, Vt., started on a trip to Scotland, July 18.

Leonard H. Vaughan was married to Miss Anita G. Wilkens at Chicago on July 17.

Mr. S. Keller, of Reed & Keller, New York, sailed for Europe on Thursday, July 20, on a business trip.

James K. Tappan has been appointed florist on the grounds of the U. S. Machine Co., Beverly, Mass.

Thomas F. Galvin and son arrived at Boston on the *Saxonia*, July 13, after a short transatlantic trip.

John F. Parson of South Lawrence, Mass., by occupation a florist, is soon to wed Miss Ruth Frederica Johnson.

L. A. Giger of the late firm of Pratt & Giger of New London, Conn., is now employed as a gardener on the Morton P. Plant estate.

W. B. Arnold of Rockland, Mass., has gone to California and will not return for some months. He may decide to locate somewhere in that state.

Recent visitors in Boston were A. Ringier, representing Barnard, Chicago; Mr. and Mrs. Chas. L. Seybold, Baltimore, Md.; W. E. Chappell, Providence, R.I.

Mr. R. M. Rahaley, representing Mich. Cut Flower Co., Detroit, Ph. Breitmeyer, Detroit, J. B. Murdock, Titusville, Pa., and Chas. Eble, New Orleans, were visitors last week in Buffalo.

Prof. S. W. Fletcher, professor of extension teaching in the Cornell college of agriculture, has resigned to take the directorship of the department of horticulture and landscape gardening in the Michigan agricultural college, one of the best equipped colleges of its kind in the country.

Mr. Francis Canning, head gardener and instructor in floriculture at the Massachusetts Agricultural College, sailed Tuesday from Boston for Liverpool. Mr. Canning is an Englishman by birth and will visit the scenes of his boyhood in Leamington and Stratford-on-Avon. He will return about September 1.

HYDRANGEAS IN NEWPORT

It has been remarked more than once—What would Newport be like without its privet hedges and its gorgeous masses of hydrangeas? No doubt if they were to disappear suddenly their loss would be greatly felt. There are, without question, in Newport some of the finest specimen plants of hydrangeas in this country or perhaps in any country, but while these specimen plants are beautiful still it is when grouped in large masses as they are on many places here, that the best effect is produced. Hydrangeas are at home in Newport as they are in no other place and despite the severity of the past winter they never looked better at this season of the year than they do now.

John Lewis Childs, Floral Park, N.Y. Advance Price List of Gladioli Bulbs for 1906. The new and beautiful variety, America, is herein offered for the first time.

NEWS OF THE CLUBS AND SOCIETIES

AMERICAN CARNATION SOCIETY

Preliminary premium list for exhibition to be held at Boston, Mass., January 24 and 25 1906.

CLASS A.

Open to all varieties, seedlings or standard sorts.

Vase of 100 blooms white, Daybreak pink, Lawson pink, Scott pink, scarlet, crimson, yellow variegated, white variegated, any other color; first prize \$10, and second prize \$6, for each.

CLASS B.

Open to all varieties disseminated prior to July 1st, 1904.

50 blooms white, Daybreak pink, Lawson pink, Scott pink, scarlet, crimson, yellow variegated, white variegated, any other color; first prize \$5, and second prize \$3, for each.

CLASS C.

Open to all varieties disseminated prior to July 1st, 1903.

25 blooms white, Daybreak pink, Lawson pink, Scott pink, scarlet, crimson, yellow variegated, white variegated, any other color; first prize \$3, and second prize \$1.50, for each.

CLASS D.

Lawson silver medal for the best vase, Lawson silver medal for the second best vase, and the Lawson bronze medal for the third best vase of 100 blooms, any variety, any color.

CLASS E.

S. A. F. silver medal for the best vase, and the S. A. F. bronze medal for the second best vase of 50 blooms of carnations of American origin not yet disseminated.

CLASS F.

General display of commercial carnations, varieties disseminated prior to April 1st, 1905. 50 blooms to be shown to a vase, and display not to exceed twenty varieties. Vases from this collection are not allowed to compete in any of the other classes. 1st prize, \$50; 2d, \$30; 3d, \$20.

CLASS G.

A. H. Hews & Co. Silver Cup for the best collection of carnations four varieties, twenty-five blooms each, to be shown in separate vases.

ALBERT M. HERR, *Secretary*.

AMERICAN POMOLOGICAL SOCIETY

The twenty-ninth biennial meeting of the American Pomological Society will be held in Kansas City, August 8-10.

This meeting will be important from the standpoint of scientific pomology as well as the more practical questions of orchard management.

The Society may bestow a medal upon a display, or collection of fruits if deemed meritorious. It may also award a medal to a new variety of proved value. Special attention is called to this feature. Be it understood that the exhibits are not competitive, but that each is judged upon its own merits and if found worthy a medal is awarded.

Medals are of two kinds: silver and bronze. Both form honorable records of pomological progress. Let all those who have new varieties of fruits, or old varieties of superior excellence forward them to the meeting at Kansas City. Express should be prepaid, and the packages should be sent in care of L. A. GOODMAN, Kansas City, Mo., for American Pomological Society.

Railroads give usual concessions. Western road, however, promise complimentary excursions through the fruit sections of the Ozarks.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The annual picnic will be held at Randolph Grove, near Randolph, Mass., on Tuesday, July 25, 1905. The Sports Committee have arranged for the following list of events. There will be 2 prizes for each event. These prizes vary from meerschaum pipes to canary birds, ladies' sashes to guinea pigs.

Baseball game, men vs. boys (age limit 16); Croquet contest for ladies; Cricket match for men, married vs. single. Foot race for boys 10 years and under. Foot race for girls, 10 years and under. Foot race for boys between 10 and 16. Foot race for girls between 10 and 16. Foot race for married ladies, 50 yards. Foot race for young ladies (over 16), 100 yards. Sack race, 100 yards, open to all. Foot race, 100 yards, Club Members only. Foot race, 100 yards, flat men, over 200 pounds (handicap). Foot race, men over 50 years of age. Potato race for ladies. Three-legged race for men. Quoit match. Running high jump (open to all). Running hop, skip, and jump. Running long jump. Throwing 12-pound shot. Throwing 12-pound hammer. Boat race for ladies. Boat race for men. Best looking baby under 2½ years.

In addition to the foregoing there will be lawn tennis, and other games of amusement, boating on the beautiful lake, over a mile long, boats at \$1 per day.

A first-class clam bake dinner will be served at 50 cents per head. It is desired to make the event a grand popular success and every member of the Club is urged to make a special effort to be present, with family and friends. All are urgently requested to notify the secretary, W. N. Craig, North Easton, Mass., by mail of intention to be present and number of dinner tickets wanted, as it is necessary to order from the caterer four days ahead.

FLORISTS' CLUB OF PHILADELPHIA

Edwin Lonsdale will present a synopsis of the inception and first ten years' history of the Florists' Club of Philadelphia at the meeting first Tuesday in August. This club was the first of its kind and will celebrate its twentieth anniversary this year. The program for the September meeting includes an account of the convention at Washington, (1) from the florists' standpoint by James J. Habermehl, (2) from the seedsman's standpoint by George Clark, and (3) from the ornamental horticulturist's standpoint by Edward Campbell.

Edward A. Stroud, of Stratford, has invited the club to visit that establishment the first Tuesday in October. This is an up-to-date carnation establishment, and with a generous host to welcome them, an enjoyable outing is assured.

Dr. Joseph V. C. Roberts will deliver an address at the November meeting on "Plants and Flowers as Sanitary Agents."

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

President J. C. Vaughan has made the following appointments: Exhibition Judges; John T. Temple, Davenport, Ia., chairman, Dr. A. L. Halsted, Belleville, Ill., Joseph A. Manda, So. Orange, N. J.; Committee on Prize Essays, Benjamin Hammond, Fishkill, N. Y., chairman, Alex. Wallace, New York, Robert Craig, Philadelphia; Sergeant-at-arms, J. D. Carmody, Evansville, Ind.

WM. J. STEWART, *Secretary*.

ST. LOUIS FLORISTS' CLUB

At the July meeting of this club nominations of officers were made as follows:

For president Fred Ammann, J. Dunford, C. Sanders, and A. Jablonsky. For vice-president John Steidle, A. J. Fehr, and J. F. Windt. For secretary Emil Schraay, J. E. Bencke, Otto Koenig. For treasurer E. Guy, F. H. Meinhardt, Geo. H. Augermuller. Trustees, Frank Weber, A. J. Bentzen, V. Gorley, Henry Lorenz, F. H. Weber, W. J. Filcher, Arthur Ellison, Frank Fillmore, and Geo. Windler. Preparations for the picnic of July 20 were completed, with E. Guy and Fred Ammann as managers. The question of incorporation, also S. A. F. matters and the Washington route were left over till next meeting, it being hoped that a better rate for the trip might yet be secured, \$27.25 for the round trip via B. & O. being the best thus far.

CHRYSANTHEMUM SOCIETY OF AMERICA

The following prizes are offered, to be competed for at the next annual exhibition of the C. S. A. to be held in Philadelphia, November, 1905. Vaughan's Seed Store offers a silver cup, value \$25 for the best specimen of bush chrysanthemum plant grown by a private gardener which has not received any other award.

H. W. Buckbee offers silver cup, value \$25, for the best ten chrysanthemums, one variety, open only to American and foreign introduction of 1905 and varieties not yet in commerce.

KENTUCKY SOCIETY OF FLORISTS

The Kentucky Society of Florists held its regular meeting at Anders Rasmussen's place, Tuesday afternoon, July 12. Owing to the number of other attractions, the business meeting was omitted. The members went on a special car to Glenwood Park, where two exciting games were bowled, A. R. Baumer winning the prize, beating F. L. Schulz one pin. Mr. Rasmussen deserves much credit for the very enjoyable time tendered the society.

OUTING OF JOHNSON & STOKES EMPLOYEES

On Saturday, July 15, the employees of Johnson & Stokes, the Philadelphia seedsmen were given a delightful outing, through the courtesy of Mr. Walter P. Stokes, the junior member of the firm, that will ever be a red-letter day in the memory of every one who participated. Mr. Stokes planned the "outing" and accompanied the party to the steamboat landing. After a breezy ride on the Delaware, the boat landed at Riverton, N. J. The excursionists were conveyed by carriages to Moorestown, where are situated the Floracraft trial grounds and the beautiful home of Mr. Stokes. Mrs. Stokes received each one in her most gracious manner. Games were enjoyed on the spacious grounds and a charming carriage ride through beautiful Moorestown followed, which will not soon be forgotten. On return a sumptuous dinner was served with music accompaniment. A visit to the trial grounds and the fine greenhouses in the cool of the evening proved very instructive and interesting. A concert on the lawn at 8 p.m. was highly enjoyed until some thoughtful one of the party reminded the others that it was time to depart for the train, when the realization dawned upon each that one of the most delightful outings that could be planned by a generous employer and charming hostess had come to an end.

CUT-FLOWER MARKET REPORTS

BOSTON The market is still suffering from the excessive heat of the past week, the weather affecting not alone the condition of stock but prices as well. Many growers have already notified their agents that the supply, as predicted in these columns last week, will soon fall off, but as the demand is fairly good, it is expected that with a small supply prices will soon reach a level and that general conditions will improve. A good market is predicted for the fall season and the many growers in this immediate vicinity are already preparing for an increase in trade.

BUFFALO The past week there was little change from last report, although it was expected that during the Elks' Convention it would stir up the market somewhat. It was looked for but never came; everything went well during the excitement except flowers. Roses and carnations of poor quality continue to come in pretty heavy supply and hard to move at low price. Good tees are picked up quickly especially Kaiserin and Carnot. Beauties were figured upon to be the best seller during week, and a good supply and fine quality stock was received but the buyers were few. The latter part of week it looked more encouraging and market seemed to brighten up a little. Easter aurasium, and album lilies were in good demand and were fast sellers. Peas are a glut at times. Cold storage peonies were in market but could not stand the hot weather.

CHICAGO The market is now down to summer basis with light demand and supply of choice material diminishing rapidly, so that the values are not much affected, except on the lower grade stock which, in the case of roses, is frequently diminished badly and in the case of carnations runs to very small sizes. Where the latter are really good, they sell fairly well.

CLEVELAND The market here is very dull, the continued hot weather creating a glut, which is hard to move at any price. Roses are small and inferior in color, prices \$3 to \$4 per 100; carnations, \$1.50 to \$2; sweet peas, 25c., all colors; coreopsis, 25c. There are plenty of nasturtiums, gaillardias, and auratum lilies.

INDIANAPOLIS There is but little to record these days. Store trade with exception of occasional funeral work is practically at a standstill. Owing to heavy rains this has been a very poor season for sweet peas. Auratum lilies and gladioli are arriving in large quantities and are used extensively for decorations. Select stock in all lines is very scarce.

Interviewing several of the leading retailers and growers they report the past season as a most prosperous one.

LOUISVILLE Business conditions have been very slow. The demand for carnations is nearly over, but the demand remains good. Some roses of good quality can be had, and find a satisfactory sale. There is an occasional call for lilies.

MONTREAL If June be the month of sweet peas, Phenomenal is the rise of this flower in popular favor. Those who have seen the Annual Sweet Pea Exhibition at the Crystal Palace, London, have some idea of its utility and beauty in decorative art. Almost every possible shade has been produced; the new types with long stems and larger blooms have greatly enhanced their usefulness.

ness. They are selling in quantity here just now and are about the only flower which shows quickly at this season. Roses are still in good shape and go fairly well, but carnations are rapidly losing size and color. Indoor flowers are giving place to many of perennials. Iris Kämpferi, gaillardias, calliopis, etc., are in quantity. Lilium candidum commands good prices. Considering the great exodus of people, the trade generally is above the average for this month. In the houses preparations for winter stock are in progress. Now is the time for a thorough cleansing down; washing woodwork, white-washing, and the mending of stages should be attended to. Roses and chrysanthemums are being started in their growing quarters.

NEWPORT During the last few days prospects have improved wonderfully in Newport. The extreme heat in the large cities hastened the departure of many families who tarried longer than usual on account of the cool weather hitherto. Newport is now well filled and many are beginning to entertain, some so far on a moderate scale only, while others have given somewhat elaborate affairs.

These conditions will remain much the same until the first of August when the fun will really begin.

A big wedding with a profusion of flowers and a ball, given in honor of the introduction to society of a young lady, are scheduled for the near future and the plans are such that when matured and carried into effect the result will be something unrivaled hitherto, even in Newport.

NEW YORK General trade conditions remain unchanged. American Beauties are plentiful; other varieties of roses have decreased in quantity and shipments are light. Carnations are also in greatly reduced supply.

OMAHA Values on cut flowers have kept up fairly well in this market and trade has been very satisfactory the season through. This may also be said of the plant trade which was good all through the spring, with an excellent demand until late in June. You would hear from us often but we have been so busy that there was no time to write. A florists' picnic is in prospect for the latter part of this month. Our bowlers are making good scores and we may have a team at Washington.

PHILADELPHIA Stock was not over plentiful last week, but there was enough to go around, as the principal trade was in funeral work and other small items. Most of the growers are now cleaning out a large part of their benches, which tends to keep supplies within small limits. Summer Beauties are unusually good this year and find ready sale. Bride-maids are poor except in a few scattered instances. The same may be said of carnations which, except here and there, are small and not over wide-awake. Sweet peas are in smaller volume and while the quality is fair, there is but a limited demand. White double petunias and white perennial phloxes are a welcome addition for funeral work, etc. Asters have commenced to arrive. These are very good, considering the earliness of the season. Achillea, feverfew, gladioli, gaillardia, nymphaea, and yellow daisies may also be noted as helping to add variety to the market at present.

PHILADELPHIA HAPPENINGS

A meeting of the S. A. F. sports committee was held in Philadelphia on the 14th inst. John Westcott and P. J. Hauswirth are the leading spirits, and they are enthusiastic over the prospects. To the grand work that

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GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

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Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of raising ornamental plants and general landscape work. Address, K. K. HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—Young man to take charge of carnation houses. Must furnish references. Situation will be open September 1st. Address, V. care of HORTICULTURE, 11 Hamilton Place, Boston.

A BADGE FOR THE EXCURSION EVERYBODY WANTS ONE

We make them in metal, ribbon, etc., in endless designs. Clubs and Societies should get our prices.

Also Makers of High-Grade Metal Signs, Tablets, Glass Letters for Show Windows, Enamel Letters, etc. Send for Catalogue No. 53.

N. STAFFORD CO.

67 Fulton Street,

NEW YORK

is being done locally in Washington, have been added some generous outside donations, chief among which may be mentioned the Beatty and Stewart contributions. Mr. Westcott has charge of the shooting arrangements and will cooperate with the local committee in Washington to ensure successful shooting—a feature that was very much missed at the St. Louis convention.

The advent of our Chicago friend in Philadelphia accounts for the lovely breeze that agitated the welcoming tree tops in Lansdowne that hot morning, and stirred our flowing locks so deliciously while we journeyed city wards. After a hurried greeting between Mr. Hauswirth and our suave wholesaler, Samuel S. Pennock, and a pleasant interview with the nonchalant, yet wide-awake, Leo Nielsen, the visitor fell under the tender mercies of Commodore Westcott and how he ever got on the train for Washington instead of the train to Warrenton is a mystery. The commodore sticks to his ditum that the man who is no good as a sport is no good for work. In other words: that the best workmen are generally those who are fondest of a little play. Mr. Westcott is a living example, being noted as one of the hardest workers in working hours and one of the keenest and gamiest when work is done.

Joe G. Gardner of the Montgomery nurseries celebrated his fiftieth anniversary on the 14th inst with a cricket match between the Montgomery eleven and a picked team of neighboring gardeners and florists. His son Neil also has a birthday, and it falls on July 14, a very convenient proposition which saves a lot of wear and tear and is respectfully recommended to all fathers who have a genuine eye to business and the convenience of their childrens.

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THE BEST COMING TO
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After July 1st Store Open 7 A. M. to 6 P. M.

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	CHICAGO JULY 18	ST. LOUIS JULY 17	PHILA. JULY 18	BOSTON JULY 20
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 33.00	to	25.00 to 30.00	15.00 to 20.00
" Extra	15.00 to 20.00	12.50 to 15.00	10.00 to 20.00	10.00 to 12.00
" No. 1	10.00 to 15.00	8.00 to 10.00	10.00 to 12.50	4.00 to 8.00
" Lower Grades	2.00 to 6.00	3.00 to 6.00	8.00 to 8.00	.50 to 2.00
Bride & Maid - Fan. & Sp.	5.00 to 6.00	to	6.00 to 8.00	4.00 to 5.00
" Extra	4.00 to 5.00	4.00 to 5.00	5.00 to 6.00	2.00 to 3.00
" No. 1 and Lower gr.	1.00 to 3.00	2.00 to 4.00	2.00 to 5.00	.50 to 2.00
Liberty, Fancy & Special	10.00 to 12.00	to	8.00 to 10.00	6.00 to 8.00
" extra	8.00 to 10.00	4.00 to 5.00	6.00 to	4.00 to 6.00
" No. 1	5.00 to 6.00	2.00 to 3.00	4.00 to	3.00 to 4.00
Carnot and Kaiserin	2.00 to 10.00	to	to	4.00 to 8.00
Golden Gate, Ivory, Chateaux	1.00 to 6.00	to	2.00 to 8.00	3.00 to 4.00
CARNATIONS				
Fancy Class	1.50 to 2.00	to 2.00	1.50 to 2.00	.50 to 1.00
General Class	.50 to 1.00	1.00 to 1.50	1.00 to 1.50	.15 to .50
ORCHIDS				
Cattleyas	50.00 to 60.00	to	to	to
BULBOUS				
Lilies	8.00 to 12.50	to	to	to
Lily of the Valley	3.00 to 4.00	to	to	3.00 to 4.00
Callas	6.00 to 8.00	to	to	to
MISCELLANEOUS				
Mignonette	1.50 to 3.00	to	to	1.00 to
Sweet Peas	.15 to .40	to .15	to .40	.15 to .25
Adiantum Cucutatum	.25 to .50	to	1.00 to	.75 to 1.00
" Crownatum	to	to	1.50 to	to 1.50
" Fairlyense	to	to	to	to
Smilax	8.00 to 12.50	to	15.00 to 20.00	12.00 to 16.00
Asparagus Plumosus; strings	25.00 to 35.00	to	25.00 to 50.00	35.00 to 50.00
" bunches	15.00 to 25.00	to	50.00 to 50.00	25.00 to 50.00
" Sprenger	15.00 to 25.00	25.00 to 50.00	25.00 to 50.00	25.00 to 50.00

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KAIZERIN, CARNATIONS, SWEET PEAS

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CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.

In writing to advertisers, mention HORTICULTURE

CHAS. W. McKELLAR

51 WABASH AVE. CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage

E. F. WINTERSON CO. CHICAGO
CATALOGUE FREE

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Ave. Chicago, Ill.

In writing to advertisers, mention HORTICULTURE

TO BUYERS

Patronize our advertisers, they will treat you right

PHILADELPHIA NEWS NOTES

James M. Thoires of Camden has taken a cottage for his family for the summer at Wildwood, N.J.

William J. Muth of the Cut Flower Co. has been busy striking the annual balance, and finds that business nearly doubled over their previous year.

Walter P. Stokes of Johnson & Stokes treated the employees of the firm to an outing by boat and trolly to his country seat at Moorestown, N.J., on the 15th inst.

Announcement has been made of the application for articles of incorporation for the Robert Craig Company. The signatories are Robert Craig, H. G. Ellinger, and James Cole.

Another batch of happy vacationists disappeared from nearly all the larger places last week, making it interesting for those that are left, notwithstanding the summer dullness.

New-crop freesia, oxalis, and zephyranthes bulbs are now in evidence at Mitchell's. The demand for pansy seeds, strawberry plants, and other midsummer specialties is unusually good this season.

A. H. Brown, head of the accounting department of W. Atlee Burpee & Co., left on the 12th inst. for a trip through his native New England, accompanied by Mrs. Brown. His first stop will be Newburyport, Mass., after which he will sojourn in Maine.

NEWS NOTES

The Winona Floral Company of Winona, Minn., is bankrupt.

Frank Huntsman of Cincinnati has filed a bankruptcy petition with liabilities stated at \$2,350.

John Kirchner, Cleveland, O., under the firm name of Kirchner's is putting up two new houses, 20 x 80, and a shipping room and potting shed.

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAQS in best manner by

Young & Nugent

42 W. 25th Street, New York

(In writing advertisers, mention HORTICULTURE.)

GEO. H. COOKE
FLORIST

Connecticut Avenue and I Street
WASHINGTON, D. C.

FRED C. WEBER
FLORIST

426-28
OLIVE STREET ST. LOUIS, MO.

Established 1873

Long Distance Phone Bell Lindell 676

ROSES

AS A LEADER we offer UNCLE JOHN, the Improved Golden Gate, color far superior and better shaped flower, in 3" inch pots at \$25.75 2 in at

For immediate removal we offer a limited number of good clean healthy plants at extremely low prices as we are in need of the space they occupy

	100	1000
Uncle John, 3" inch,	\$3.00	\$25.00
Uncle John, 2" inch,	2.00	15.00
Bridesmaid, 2" inch,	2.50	20.00

American Beauty (Bench Plants) \$3.00 per 100 - \$25.00 per 1000

CARNATIONS, 100,000 Field Grown

Our plants being large we are prepared to book orders now for early shipments and shall have the following varieties to offer:

Lawson (Pink)	Nelson Fisher	Flamingo	Mrs. Nelson	Flora Hill
Boston Market	Crusader	Harry Fern	Triumph	Guardian Angel
	Roosevelt		Mrs. Inc	

We shall begin making deliveries the latter part of July at which time our stock will be in the best possible shape to ship.

Pricing furnished upon application, also when writing kindly state when stock is wanted, we guaranteeing all stock to be in 1st CONDITION.

J. A. BUDLONG

37-39 Randolph St., CHICAGO

ROSES and
CARNATIONS
A SPECIALTY....

WHOLESALE
GROWER of Cut Flowers

In writing to advertisers kindly mention HORTICULTURE

BUSINESS CHANGES

William Taylor succeeds the Capital Seed Co. at Des Moines, Ia.

Lambros Mulinos has opened a new store at 1274 Broadway, N. Y.

The American Seed Co. has been incorporated at Fort Worth, Tex.

Sneider & Co. is a new plant-growing establishment in Woburn, Mass.

The Lake Odessa Floral Co. has started business at Lake Odessa, Mich.

L. A. Rouston & Co. have been incorporated as florists in Detroit, Mich.

Ormiston & Griffith succeed to the business of H. E. Philpott at Winnipeg, Man.

The Fresno Nursery Co. has been incorporated at Fresno, Cal. Capital, \$50,000.

Mrs. W. L. Smith has purchased the greenhouses of Charles Doll at Seymour, Conn.

At Toronto, Ont., a new flower store has been opened at 96 Yonge street, as The Rosary.

The Child Floral Company succeeds C. Kramer in the retail flower business at Salt Lake City.

The Wm. F. Lauch Florist Company, Big Beaver, Pa., has been incorporated. Capital, \$10,000.

Moore & Simon of Philadelphia will move their seed business on August 1 from 207 to 339 Market street.

John A. Kraus, of Auburn, N. Y., has gone into bankruptcy with liabilities of \$1,810.77 and assets trifling.

Peter Olinger has gone into partnership with Peter Weiland, and will manage the store in Cincinnati.

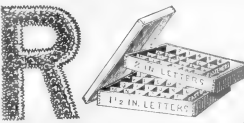
It is said that a flower farm with capital stock of \$250,000 is to be started at Dallas, Texas, by E. H. R. Green.

Albert T. Lorch succeeds A. T. Lorch & Co., at De Haven, Pa., George F. Hoffmeister retiring from the firm.

George H. Sinclair, formerly foreman for the late E. H. Howland, has leased the Howland greenhouses at Holyoke, the report of lease to a Vermont florist having been premature.

The Greenhouse Company has been incorporated in Jersey City, N.J., for the purpose of greenhouse construction and heating, with capital stock \$200,000. W. R. Phillips is president and Preston Le Bau, secretary.

IF YOU WANT solid buyers to know what you are selling ADVERTISE IN HORTICULTURE. It's a'going to catch them all this coming season.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters. Rock Letters, 1/2 inch size, per 100, \$2. Script Letters, 3/4 inch size, per 100, \$2. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. P. MCCARTHY, Treas. and Manager
84 Hawley St., BOSTON, MASS.

FRANK MILLANG

Wholesale Commission Florist
COOGAN BUILDING
55-57 W. 26th Street, New York

Tel. 200 Madison Sq. Open 6 A.M. to 5 P.M.
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The RELIABLE HOUSE

JOSEPH S. FENRICH

Wholesale Florist
Consignments Solicited

43 West 30th Street, New York City
Telephone No. 325 Madison Square.

FORD BROS.

48 West 28th Street, New York

Fine Roses

Fancy Carnations

A full line of all CUT FLOWERS
Telephone, 3870 or 3871 Madison Square

JOHN I. RAYNOR

Wholesale Commission Florist SELLING AGENT FOR LARGEST GROWERS

A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices

TEL. 1998 MADISON SQUARE

49 W. 28 St., New York City

Walter F. Sheridan

Wholesale Commission Dealer in

Choice Cut Flowers

39 West 28th Street, New York
Telephone: 902 Madison Sq.

JULIUS LANC**Wholesale Florist**

Consignments received, sold well and returns made promptly

53 WEST 30th ST. NEW YORK

Telephone, 280 Madison Sq.

ESTABLISHED 1872

JOHN J. PERKINS

WHOLESALE AND COMMISSION FLORIST

115 West 30th St., New York

Tel. No. 956 Madison Square

Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

WM. GHORMLEY

WHOLESALE COMMISSION FLORIST

57 West 28th St., New York

FINEST ROSES ALL VARIETIES

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones { 2200 } Madison
 { 2201 } Square

Write for Current Prices

In writing to advertisers, kindly mention HORTICULTURE

NEW YORK CUT FLOWER QUOTATIONS

TRADE PRICES—Per 100—TO DEALERS ONLY

	Last Half of Week ending July 15 1905		First Half of Week beginning July 17 1905			Last Half of Week ending July 15 1905		First Half of Week beginning July 17 1905	
ROSES									
Am. Beauty, fan, and sp.	10.00	to 20.00	10.00	to 20.00					
" extra	6.00	to 8.00	6.00	to 8.00					
" No. 1	4.00	to 6.00	4.00	to 6.00					
" Lower grades .....	.50	to 2.00	.50	to 2.00					
Bride & "Maid, fan, and sp.	3.00	to 4.00	3.00	to 5.00					
" extra	2.00	to 3.00	2.00	to 3.00					
" No. 1 and Lower gr. ....	.25	to 2.00	.50	to 2.00					
Liberty, fan, and sp.	6.00	to 12.00	6.00	to 12.00					
" extra	3.00	to 5.00	3.00	to 5.00					
" No. 1	2.00	to 3.00	2.00	to 3.00					
Carnot and Kaiserin	1.00	to 5.00	1.00	to 5.00					
Golden Gate, Ivory, Chateaux ..	1.00	to 4.00	1.00	to 4.00					
Killarney	1.00	to 4.00	1.00	to 4.00					
CARNATIONS									
Fancy Class	1.00	to 2.00	1.50	to 2.00					
General Class .....	.50	to 1.00	.50	to 1.50					
ORCHIDS									
Cattleyas	50.00	to 75.00	50.00	to 75.00					
BULBOUS									
Lilacs	3.00	to 5.00	5.00	to 6.00					
Lily of the Valley .....	.50	to 2.00	1.00	to 2.00					
MISCELLANEOUS									
Mignonette	to .50	to 1.00	to .50	to 1.00					
Sweet Peas, bunches	50 to 2.00	15 to 2.00	50 to 2.00	15 to 2.00					
Adiantum Cuneatum	to .50	to .50	to .50	to .50					
" Crownatum	to .50	to 1.50	to .50	to 1.50					
" Farleyense	to .50	to .50	to .50	to .50					
Smilax	5.00	to 10.00	5.00	to 10.00					
Asparagus Plumosus, strings ..	20.00	to 35.00	20.00	to 35.00					
" bunches	10.00	to 20.00	10.00	to 20.00					
" Sprengerii	5.00	to 10.00	5.00	to 10.00					

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 25th Street - - NEW YORK

In writing to advertisers, mention HORTICULTURE

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 35th St.

Cable Address, ALEXCONNELL

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DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.

DETROIT, MICH.

Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from
Telephones: 3860-3871 Madison Square

J. B. MURDOCH & CO.

Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance Phone, 1435 Court.
In writing to advertisers, mention HORTICULTURE

Bonnot Bros.

WHOLESALE FLORISTS

55 and 57 W. 26th St. NEW YORK
Cut Flower Exchange. Tel. 830 Madison Square
OPEN 6.00 A. M.

AN INFORMATION BULLET FOR GROWN-UP FLOWERS

The only house
handling the New
Red Carnation

"Victory"

To be disseminated 1906. Also a complete
line of choicest flowers.

ALEX. J. GUTTMAN

WHOLESALE FLORIST
52 WEST 29TH ST. NEW YORK
Telephones 1664-1665 Madison Square

Edward C. Horan

Wholesale Florist

55 WEST 28th ST.

Tel. 1462 1463 Madison Sq. New York

JAMES A. HAMMOND

Wholesale Commission Florist

113 W. 36th St., NEW YORK CITY
Tel. 534 Madison Sq.

Consignments receive conscientious and prompt
attention. Highest market price guaranteed.
The finest stock in the market always on hand

Flowers Needed? Too Busy to go to
Market? Then Order from Any of the
Advertisers on These Pages. Mention
HORTICULTURE.

H. Bayersdorfer & Co.

50-56 North 4th Street
PHILADELPHIA, PA.

Florists' Supplies

BEST LINE IN THE COUNTRY

REED & KELLER

122 W. 25th St., New York, N.Y.

Importers and Manufacturers of FLORISTS' SUPPLIES

Galaxy Leaves and all decorative Greens
Agents for CALDWELL'S PARLOE BRAND WILD SMILAX

In writing to advertisers mention HORTICULTURE
WILLIAM J. BOAS & CO.

...MANUFACTURERS OF...

Folding Flower Boxes

No. 1042 RIDGE AVENUE, PHILADELPHIA

Write for Price List and Samples

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Cut Flowers

BOSTON'S BEST
ALL VARIETIES

SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

84 HAWLEY ST.
Tel. Main 5973 BOSTON

NEW SPHAGNUM

FINEST QUALITY

FERNS, GALAX AND SUPPLIES

H.M. Robinson & Co.

8 and 11 Province St., Boston, Mass.

GEORGE A. SUTHERLAND CO.

CUT FLOWERS

Florists' Supplies and Letters

34 Hawley St. - BOSTON

Headquarters in Western New York for

Roses Carnations

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist
Also Dealer in Florists' Supplies
and Wire Designs

383-87 Ellicott St., Buffalo, N.Y.
GIVE US A TRIAL WE CAN PLEASE YOU

FANCY CARNATIONS AND ROSES

Pittsburg Cut Flower Co., Ltd.

504 Liberty Ave., Pittsburg, Pa.
In writing to advertisers, mention HORTICULTURE

FANCY FERNS

\$1.00 PER 1000 Discount on regular shipments

Michigan Cut Flower Exchange

WM. DILLGER, Manager
WHOLESALE FLORISTS
38 AND 40 MIAMI AVE., DETROIT, MICH.
In writing advertisers, mention HORTICULTURE

OUR FLOWERS

Are the product of establishments that CAN
BE DEPEND UPON to supply blooms of un-
excelled quality EVERY DAY IN THE YEAR.

We are prepared to furnish GOOD MATERIAL and at REASONABLE PRICES. Let us hear from you NOW, please.

TRAENDLY & SCHENCK

44 West 23th St. New York City
Telephones, 798-799 Madison Square

WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI July 17	BALTIMORE July 17	BUFFALO July 17	PITTSBURG July 17
ROSES				
Am. Beauty, fan. and sp.	20.00 to 24.00	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00
" extra	10.00 to 18.00	8.00 to 10.00	15.00 to 20.00	10.00 to 15.00
" No. 1 and Lowergr.	10.00 to 12.00	8.00 to 10.00	15.00 to 20.00	5.00 to 8.00
" Lower grades	6.00 to 8.00	2.50 to 5.00	3.00 to 6.00	2.00 to 3.00
Bride & Maid, fan. and sp.	4.00 to 5.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" extra	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
" No. 1 and Lowergr.	1.50 to 2.00	1.50 to 3.00	2.00 to 4.00	1.00 to 3.00
Liberty, fan. and sp.	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
" extra	3.00 to 4.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
" No. 1	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Carnot and Kaiserin	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
Golden Gate, Ivory, Chateaux	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00	5.00 to 6.00
CARNATIONS				
Fancy Class	1.50 to 2.00	1.00 to 1.50	1.25 to 2.00	1.00 to 1.50
General Class	.50 to 1.00	.50 to 1.00	.50 to 1.25	.50 to 1.00
ORCHIDS				
Cattleyas	to	to	to	to
BULBOUS				
Lilies	10.00 to 12.50	6.00 to 9.00	to	10.00 to 15.00
Lily of the Valley	2.00 to 4.00	to	3.00 to 4.00	3.00 to 4.00
Callas	6.00 to 8.00	to	to	to
MISCELLANEOUS				
Mignonette	.15 to .50	.15 to .25	.15 to .25	.15 to .25
Sweet Peas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Adiantum Cuneatum	to	to	to	to
" Crowneum	to	to	to	to
" Farleyense	to	to	to	to
Smilax	12.50 to 14.00	18.00 to 20.00	15.00 to 16.00	10.00 to 12.00
Asparagus Plumosus, strings	to	to	to	to
" bunches	to	to	to	to
" Sprenger	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00
Asters	to	to	to	to

You need not go outside the pages of
HORTICULTURE
to find where to get the best Flowers, Bulbs,
Seeds and Supplies in the Country

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For page see List of Advertisers.

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For page see List of Advertisers.

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51 & 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

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Julius Roberts Co., Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York
For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

Post Bros., Ettrick, Va.
Bulbs, Virginia.
For page see List of Advertisers.

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Plants for Fall delivery
For page see List of Advertisers.

John H. Stevers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Holart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.
Field of Growth.
For page see List of Advertisers.

H. Weber & Sons, Oakland, Md.
White Carnations, My Maryland.
For page see List of Advertisers.

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
For page see List of Advertisers.

Lehning & Winnfield, Hackensack, N. J.
Cyclamen Giganteum.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Aulburndale, Mass.
For page see List of Advertisers.

FERNES.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

FERNES, Continued.

H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers.

FERTILIZERS.

W. Elliott & Sons, New York.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. J. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Haversdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4329-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves.,
Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 43 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22d and Union Place, Chicago.
For page see List of Advertisers.

George C. Watson, 1614 Ludlow St., Phila.

GLAZING POINT.

H. A. Dreer Philadelphia, Pa.
For page see List of Advertisers.

B. B. & E. J. Chandler, Hyde Park, Mass.
For page see List of Advertisers.

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Burnham, Hitchens, Pierson Co., 1133 Broadway,
New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Safety Auto V. & H. R. Co., Lake George, N. Y.
Greenhouse Ventilators.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk St.
Chicago.
For page see List of Advertisers.

Page	Page
Aschmann G. 80	Mitchell H. F. 82
Baker Wm. J. 92	Michigan Cut Flower
Rambrick Thos. H. 94	Chicago 95
Barrows H. H. & Son. 95	Mikling Charles 95
Baur Floral Co. 78	Misling Frank 94
Bayerdorfer H. & Co. 95	Moninger J. C. 99
Boas W. J. & Co. 95	Murdoch J. B. 95
Boddington A. T. 80	Nielsen Leo Co. 92
Bonnot Bros. 95	Newman, J. & Sons. 81
Boston Florist Letter	
Co. 93	Pennock Samuel S.
Breck Joseph & Sons	Perkins John J. 78-92
..... 82-99	Phila. Cut Flower Co. 92
Breitmeier's J. Sons. 94	Pierson F. R. Co. 93
Budlong J. A. 93	Pittsburg Cut Flower
Burnham Hitchens	Co. 95
Person Co. 100	Post Bros. 81
Burpee W. A. & Co. 82	Prehlmann Bros. Co. 80
	Pye R. C. 78
Chandler B. B. & E. J.	Rawson W. W. & Co. 82
Chicago House Wreck-	Raynor John J. 94
ing Co. 99	Reed & Keller 95
Chicago Carnation Co.	Reinberg Peter 92
..... 78	Robinson H. M. 95
Clucas & Roddington	..... 95
..... 93	Rohrer August & Son. 81
Cooke G. H. 93	Ruston Floral & Nur-
Coolidge Bros. 81	very Co. 80
Cottage Gardens. 78	
DeNijs Bros. 81	Safety Automatic Ven-
Dilger Wm. 95	tilating & Heating
Dreer H. A. 82-99	Co. 99
Dysart R. J. 81	Sander & Sons. 80
	Schille Lumber Co. 98
Elliott Wm. & Son. 81-82	Scollay John A. 99
Esler J. G. 98	Scott John 80
Ernest W. H. 98	Stafford N. Co. 91
	Sharp, Partridge & Co. 98
Farruhar R. J. & Co.	Sheridan W. F. 94
..... 82	Sivers J. H. & Co. 78
Fenrich J. S. 94	Siggers E. G. 98
Fletcher F. W. 81	Skidelsky S. S. 78
Ford Bros. 94	Smith, Edw. 81
Fromow W. & Sons. 81	Stafford N. Co. 91
	Stevens A. T. Lumber
Ghormley W. 94	Co. 98
Grey T. J. & Co. 82	Sutherland Geo. A.
Gurney Heating Mfg	Co. 95
Co. 95	Suzuki & Iida. 81
Guttman Alex. J. 95	Sylvester H. 98
	Situations & Wants. 91
Hall Asso. 98	
Hammond J. A. 95	Thorburn J. M. & Co. 82
Henderson Mfg. Co. 99	Trendly & Schenck 95
Hews A. H. & Co. 98	
Holly-Castle Co. 98	Vaughan and Sperry 92
Hirao E. C. 95	Vaughan's Seed Store 82
Hunt E. H. 92	
	Walsh M. H. 81
Johnson & Stokes. 81	Ward J. M. & Co. 98
Johnson Heating Co. 99	Ward Ralph M. Co. 82
Joynt John. 81	Watson, G. C. 92
	Weber, F. C. 93
Kasting W. F. 95	Weber H. & Sons 78
King Construction Co. 99	Welch Bros. 92
Kloeker A. 98	Weiland & Rich. 82
	Wietor Bros. 92
Lager & Hurrell 80	Wilke C. H. 81
Lang Julius 91	Winterlich C. 80
Lehning & Winnfield. 80	Winterson E. F. 92
Leuthy A. & Co. 80	
	Yalaha Conservatories
Metropolitan Material	..... 91
Co. 99	Young & Nugent 93
McCarthy N. F. & Co.	Young Thos. Jr. 93
..... 95	
McConnell Alex. 94	Zirngiebel D. 82
McKellar Charles W. 92	

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THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and Supplies in the Country

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Weed St. and Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY HERBS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.
Michigan Cut Flower Co., 38 & 40 Miami Ave., Detroit, Mich.
Fancy Ferns.
For page see List of Advertisers.

HARDY HERBACEOUS PLANTS.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

HELP.

Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham, Hitchings, Pierson Co., 1133 1/2 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

Herenend Mig. Co., Geneva, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

Johnston Heating Co., St. James Bldg., New York.
For page see List of Advertisers.

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F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For summer blooming.
For page see List of Advertisers.

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August Rolker & Sons, 31 Barclay St., New York.
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For page see List of Advertisers.

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For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

G. C. Watson, 1614 Ludlow St., Philadelphia.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

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For page see List of Advertisers.

MASTICA.

Joseph Breck & Co., Boston.
For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Doddington Co., 131 W. 23rd St., New York.
Pure Culture Spawn.
For page see List of Advertisers.

NEW SPAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDER-E.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya Schroederi.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Thomas Jones, Short Hills, N. J.
Cattleya Trianae and Gigas.
For page see List of Advertisers.

PÆONIES.

Gilbert H. Wild, Sarcoxie, Mo.
For page see List of Advertisers.

F. A. Baller, Bloomington, Ill.

PÆONIES, Continued.

Edward Swayne, W. Chester, Pa.
E. J. Shaylor, Wellesley Hills, Mass.
E. Y. Teas, Centerville, Ind.

PANSY SEED.

H. F. Michell Co., 1018 Market St., Philadelphia.
For page see List of Advertisers.

A. T. Boddington, 312 W. 14th St., New York.
For page see List of Advertisers.

Dennis Zirngel, Needham, Mass.
Zirngel Giant Pansies.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehra, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.

For page see List of Advertisers.
J. Breitmeier's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

ROSES.

Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses. H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
English-Grown Roses.
For page see List of Advertisers.

Poehmann Bros. Co., Morton Grove, Ill.
Young Roses.
For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.
Young Roses.
For page see List of Advertisers.

Baur Floral Co., Erie, Pa.
For page see List of Advertisers.

Robert Miller, Pine-Croft Rose Houses, E. Brookfield, Mass.
Cut Roses.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

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51 & 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

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For page see List of Advertisers.

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High-grade Grass, Clover, and Tree Seeds.

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For page see List of Advertisers.

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Chas. W. Percy, 212 Summer St., Boston.

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E. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham, Hitchings, Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 383-87 Elliott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Washburn Ave., Chicago.
Chas. W. McKellar, 51 Washburn Ave., Chicago.
Peter Reinberg, 51 Washburn Ave., Chicago.

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Wietor Bros., 51 Washburn Ave., Chicago.
Vaughan & Sperry, 60 Washburn Ave., Chicago.
E. F. Winterson Co., 45-47, 49 Washburn Ave., Chicago

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 129 E. 3d St.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 26th St., New York.

Wm. Ghormley, 57 West 26th St., New York.
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Jas. A. Hammond, 113 West 30th St., New York.

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John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Leo Nissen Co., 147 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St., Phila., Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

BADGES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

BULBS.

De Nijl Bros., Hillegom-Holland.
For page see List of Advertisers.

CARNATION FIANCEE.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

CARNATION PLANTS.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

CHRYSANTHEMUMS.

J. M. Ward & Co., Peabody, Mass.
For page see List of Advertisers.

CHRYSANTHEMUMS WANTED.

J. Newman & Sons, Boston.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

JAPAN CANES.

W. Elliott & Sons, New York.
For page see List of Advertisers.

LILIUM HARRISII.

W. Elliott & Sons, New York.
For page see List of Advertisers.

M. LOUISE VIOLETS.

Edward Smith, Lexington, Mass.
For page see List of Advertisers.

PANSY SEEDS.

Johnson & Stoken, 217-19 Market St., Philadelphia.
Singly Collection.
For page see List of Advertisers.

RIBBONS AND SUPPLIES.

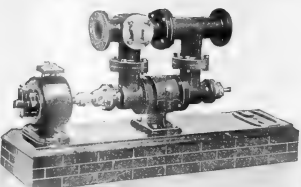
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For page see List of Advertisers.

SWEET PEA CHRISTMAS.

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For page see List of Advertisers.

The Electric Circulator

INDEPENDENT HOT WATER CIRCULATION



A simple automatic device. The circulation of heating water under perfect control as to quantity, and consequent degree of heat delivered from piping. Absolutely reliable under conditions where gravity circulation fails. Overcomes all troubles due to defective piping. Has no parts liable to get out of order. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Will save its cost in fuel in one season. Built in sizes to circulate from 1 to 1000 gallons per minute. Boiler may be placed in any desired situation. Send for descriptive circular.

We are prepared to furnish estimates for, and erect any type of Greenhouse.

HOLLY-CASTLE CO., Engineers

49 Federal Street,

BOSTON, MASS.

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FOR SALE

No. 7 Furman Boiler in use but 4 years; will heat 3500 ft. of 1 1/2 pipe steam. Also Richmond Sectional Boiler in use 7 years; will heat 5000 feet 1 1/2 pipe steam or water. Both boilers have had good care, and our reason for selling is because we heat with exhaust steam from electric light station. Will sell Furman for \$150.00; Richmond, \$175.00.

J. M. WARD & CO.
PEABODY, MASS.

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CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Att'y for not due until patent is secured. PERSONAL ATTENTION GIVEN. 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE
Illustrated monthly—Eleventh year—terms, \$1. a year.

E. G. SIGGERS, 918 F St., N. W.,
WASHINGTON, D. C.

THE PEERLESS REPAIR CLAMP



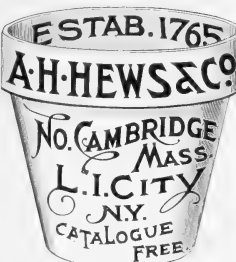
To mend cracked glass immediately. Box of 150 \$1.00 for sale by Jobber or address A. KLOKNER, Wauwatosa, Wis. Testimonials and samples free.

H. H. SYLVESTER Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work a Specialty

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32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

Standard POTS Flower...

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

25th and M Streets, WASHINGTON, D. C.

In writing to advertisers, mention HORTICULTURE

GREENHOUSE MATERIAL

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Rollers, Tubes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., CHICAGO

INSURE YOUR GLASS

in the FLORESTA HARD ASSOCIATION OF AMERICA.

DO IT NOW

'tis too late when you are hit. For particulars address

JOHN G. ESLER, Saddle River, N. J.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "Pecky Cypress" Position to Furnish

Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne,
Tel. North 1626 and 1627

CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

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FACTORIES ARE NOW CLOSED
for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

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Furman Boilers for Greenhouse Heating



Valuable Catalogue on Modern Steam and Hot Water Heating, made free upon request.

The Herendeen Manufacturing Company
Dept. H. T., Geneva, N. Y.

39 Cortlandt St., NEW YORK

30 Oliver St., BOSTON

FURMAN BOILERS have been awarded Certificate of Merit at Five different Florist's Conventions. They have a record of 20 years. Over 25,000 in use.

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EDW. S. DEAN, Bloomington, Ill. E. K. BARR, LaCrosse, Wis.
JAS. SPEAR, S. & H. CO., 104 Market St., Philadelphia.

In writing to advertisers, kindly mention HORTICULTURE

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs.
BOILERS Second-hand steam, \$35.00. No. 17 Hitches, \$75.00.

PIPE New 2-in. full length, 8 1/2 cts. per ft. Good, serviceable second-hand, with threads 2-in., 7 cts.; 1 1/2-in., 5 1/2 cts.; 1 1/4-in., 3 1/4 cts.; 1-in., 3 cts.; 3/4-in., 2 cts.; 3-in., 14 cts.; 4-in., 19 cts.; cast iron, 2-in., 12 cts.

STOCKS AND DIES New No. 1 Threads, 1/2-in., 3/4-in., 1-in., pipe, \$1.00.
No. 2 Threads, 1/2-in., 3/4-in., 1-in., pipe, \$1.00.

PIPE CUTTERS New, cuts 1/2-in. to 2-in. pipe, \$1.00; cuts 1-in. to 2-in. pipe, \$1.10.

STILLSON WRENCHES New 18-in. grips 1/2-in. to 2-in., pipe, \$1.65; 24-in. grips 1/2-in. to 2 1/2-in., pipe, \$2.40; 36-in. grips 1/2-in. to 3 1/2-in. pipe, \$4.75.

PIPE VISES New, Hinged, grips 1/2-in. to 2-in., pipe, \$2.00.

GARDEN HOSE New, 1/2-in., guaranteed 100-lb. pressure, 2 1/2 cts. per ft.; 1 1/2-in. not guaranteed, 4 1/2 cts. per ft.

HOTBED SASH New, Cypress, 3-ft. x 5 ft., from 70 cts. up; glazed, complete, from \$1.50 up. Second-hand, as good as new, at \$1.25 and \$1.00 each, complete.

GLASS New, American, 50 sq. ft. to the box: single, 10 x 12, at \$1.70; old 10 x 12 single \$1.40. B. Double, 10 x 12 and 12 x 12, at \$2.40; B. Double, 12 x 14, 14 x 16, 16 x 16 at \$5.50; B. Double, 16 x 20 \$7.80; 18 x 24 at \$2.95 a box.

RADIATORS Steam, as good as new. Write for our price on Gulf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N.Y.

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New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

SEND FOR CATALOGUE OF

SCOLLY HOT WATER and STEAM BOILERS

JOHN A. SCOLLY

73 and 75 MYRTLE AVENUE

Borough of Brooklyn, N. Y. City

Holds Glass

Firmly

See the Point

PEERLESS

Glazing Points are the best.

No. right or left. Box of 1,000 points 75 cts. postpaid.

HENRY A. BREER,

715 Chestnut St., Phila., Pa.

FULL SIZE

Nº 2



Automatic Greenhouse VENTILATORS

From \$25.00 up. Send for circular

The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.

THE OLD RELIABLE
Chandler Glazing Point and Pincers

Roofs glazed eighteen years ago are still intact.
Don't glaze until you write for samples and particulars.
300,000 sold by Peter Henderson & Co. in three months.

B. B. & E. J. CHANDLER
HIDLY PARK, MASS.

CYPRESS WRITE FOR CATALOGUE.

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. (CHICAGO)

GREENHOUSE MATERIAL

OF EVERY DESCRIPTION

In writing to advertisers, kindly mention HORTICULTURE

MASTICA FOR Greenhouse Glazing

USE IT NOW.

Joseph Breck & Sons CORPORATION

AGENTS

We are the Manufacturers
Distributing Agents for
Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION

47-54 North Market Street
Boston, Mass.

In writing to advertisers, mention HORTICULTURE

GURNEY HEATERS

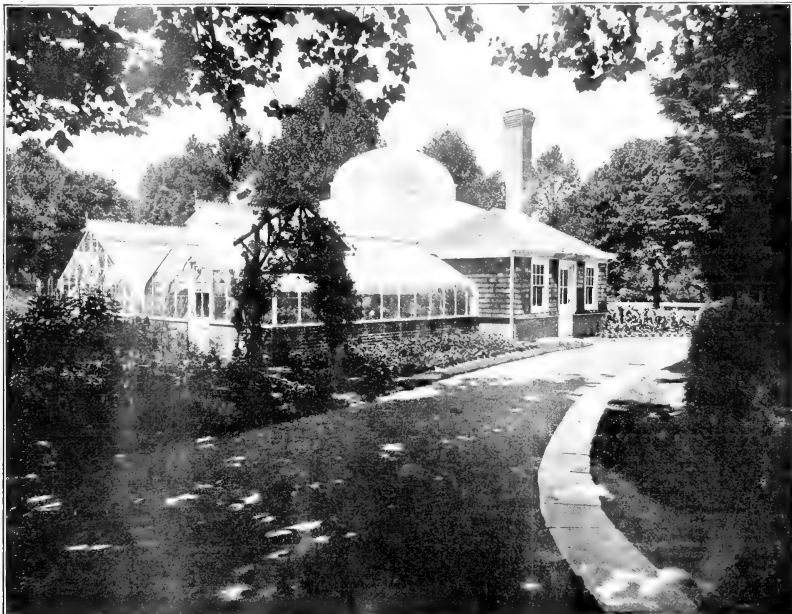
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE, 11 FIFTH AVE. 74 FRANKLIN ST. BOSTON

BOILERS We can quote you a very low price on any Boiler on the market. TRY US

JOHNSTON HEATING CO., 1133 BROADWAY, St. James Building NEW YORK



GREENHOUSE ERECTED FOR CHARLES W. McCUTCHEN, PLAINFIELD, N. J.

LORD & BURNHAM COMPANY HITCHINGS & COMPANY and PIERSON-SEFTON COMPANY

Announce to their patrons and others that they have consolidated under the name of the

BURNHAM HITCHINGS PIERSON CO.

With offices in NEW YORK at 1133 BROADWAY and a Branch Office in the TREMONT BUILDING, BOSTON.

All incomplete contracts will be executed by this company and the active members of the constituent companies will continue in its management.

As is well known, these three concerns possess all the best features of greenhouse construction and its kindred branches. Consequently the new company, by combining the best patented features of the different constructions, and in view of the many economies in operating the designing, sales, advertising, purchasing, and manufacturing departments, is now able to offer work of improved character on a closer basis than when operating separately.

Manufacturing practically everything in their own works and carrying large stocks of finished and unfinished materials, they solicit your patronage and assure you that their best services are at your command.

Burnham Hitchings Pierson Co.

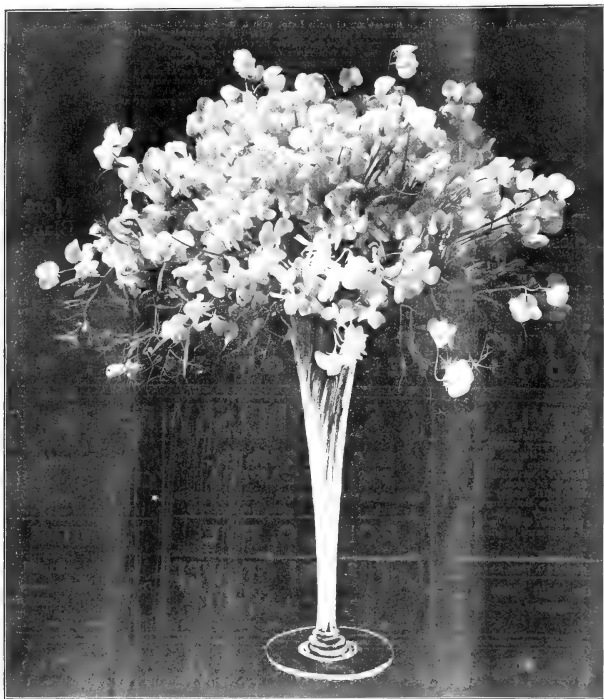
1133 BROADWAY, NEW YORK

HORTICULTURE

Vol. II

JULY 29, 1905

No. 5



SWEET PEA MONT BLANC

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

HEADQUARTERS FOR SWEET PEAS

Mr. GEORGE C. WATSON, the well-known horticultural writer, when at FORTHOOD the early part of the month selected the following varieties of Sweet Peas as being the best for florists to grow for commercial purposes.

BURPEE'S EARLIEST OF ALL. RE-SELECTED "EXTREME-EARLY." Mr. Gould, the originator of Burpee's Earliest of All, has continued to develop the earliness and dwarf habit, until in this season the "Extreme-Early" we have a strain as much earlier than Earliest of All as that variety is ahead of *Extra Early Blanche Ferry*, which again is earlier than the original *Blanche Ferry*. The plants of this new strain come into full flower when only twelve inches high and three to four weeks in advance of the first parent variety.

In our Trial Grounds, where the standard varieties of Sweet Peas all came into flower quite early, this "Extreme-Early" was in bloom on June 10, the regular strain of Earliest of All on June 16, and *Extra Early Blanche Ferry* on June 17th. Under less favorable conditions the difference in the period of flowering is even more marked. For winter flowering in the greenhouse it is the VERY BEST of the popular pink-and-white type of flowers. Per pkt. 10 cts.; oz. 10 cts.; 1 lb. 40 cts.; per lb. \$1.00.

KING EDWARD VII. The best red sweet pea up to date. Such is the verdict with which we are inclined to agree. The magnificent large flowers are of open form, with a well-shaped round standard. The wings are a tinge brighter in color than the standard; in this respect it resembles *Firefly*. While the color is, perhaps, slightly lighter than *Nelson*, the flowers are larger and borne upon longer stems; there is very little difference in the general tone of color. Most highly recommended. Per pkt. 10 cts.; oz. 10 cts.; 1 lb. 40 cts.; per lb. \$1.00.

MONT BLANC. "Cenary's." Of dwarf growth and extreme early flowering habit. The flowers are a pure paper-white, slightly smaller than those of *Early Hodegarden*. The best white for growing under glass during winter. Per 1/2 lb. 15 cts.; lb. 40 cts.

JANET SCOTT received Award of Merit, July, 1904, at the great London Show of The National Sweet Pea Society. This might almost be called a new shade of deep pink with reddish-tinted wings. The unusual size of the wings, in connection with the substantial hooded standard, gives the flowers an appearance of enormous size. The flowers are considerably deeper and richer in color than the favorite *Katherine Tracy*, while unlike that variety they are generally borne three on a stem. Per pkt. 10 cts.; oz. 10 cts.; 1 lb. 40 cts.; per lb. \$1.00.

LADY GRISEL HAMILTON. Most attractive light lavender shading; flowers of best hooded form and extra large size, even larger than those of Burpee's *New Contexts*. Standard light lavender with azure-blue wings; very light and dainty in effect. Per oz. 6 cts.; 1 lb. 15 cts.; per lb. 40 cts.

NAVY BLUE (Burpee's). The large flowers are of a deep glowing violet-purple, having the effect of a dark navy blue, although on close examination the standards show a faint tinge of claret or wine, and the deep rich coloring is grandly effective either alone or when in a combination with other colors. Per oz. 6 cts.; 1 lb. 15 cts.; per lb. 40 cts.

While these are all excellent varieties for florists' commercial purposes, yet there are many others contained in our list of 103 Tall varieties that it will pay florists to buy to plant for cut flower purposes. For description and prices of these see Burpee's Blue List for 1905, copy of which will be sent on application.

Burpee's
"Earliest of All."

Re-selected,—"Extreme-Early."

red. The flowers are practically self-colored, and the flowers are much darker than those of *Countess Cadogan*. While these are all excellent varieties for florists' commercial purposes, yet there are many others contained in our list of 103 Tall varieties that it will pay florists to buy to plant for cut flower purposes. For description and prices of these see Burpee's Blue List for 1905, copy of which will be sent on application.

W. ATLEE BURPEE & CO.,

PHILADELPHIA, PA.

HEADQUARTERS FOR SWEET PEAS

MY MARYLAND

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HORTICULTURE

VOL. II

JULY 29, 1905

NO. 5

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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE — Sweet Pea Mont Blanc		NEWS OF THE CLUBS AND SOCIETIES	
SOCIETY OF AMERICAN FLORISTS, ENTERTAINMENT AT WASHINGTON	107	American Pomological Society	111
WREATH OF SWEET PEAS — Illustrated	107	National Horticultural Council	111
PLATEAU OF PLANTS AND FLOWERS — Illustrated — H. H. Battles	108	Newport Horticultural Society	111
THE HARDY FLOWER GARDEN — T. D. Hatfield	108	Gardeners' and Florists' Club of Boston	113
ECHOES FROM ENGLAND — Harry H. Thomas	109	Fun and Frolic at Montreal	113
GROUP OF NYMPHÆAS — Illustration	109	A DAY AMONG THE SWEET PEAS — G. C. WATSON — Illustrated	114
PANDANUS SANDERÆ AT NEWPORT EXHIBITION — Illustration	109	CUT-FLOWER MARKET REPORTS	
EDITORIAL	110	Baltimore, Boston, Chicago, Louisville, Philadelphia, St. Louis	117
A SAN FRANCISCO MOVEMENT.	111	MISCELLANEOUS	
SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS		Personal	111
Program and Prospectus of the Washington Convention	112	The Late Louis Siebrecht — Portrait	111
		Obituary	111
		Philadelphia News Notes	115
		Business Changes	117
		News Notes	117

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Society of American Florists' Entertainment at Washington

Ample provision — in fact more than ample, it would seem — has been made by the Washington people to entertain the visiting members of the national society on its 21st birthday celebration. The festival character of the first Washington convention was very marked, and no doubt this year's affair will be a repetition of that long-to-be-remembered occasion, with a very good pretext in the birthday sentiment for outdoing it, if possible. President Gude, of the Florists' Club of Washington, assures us that "from the time that the visiting florists and their ladies reach Washington, until they take the train or boat for home, we hope to keep every moment of their time pleasantly and profitably occupied" and, from past experience, we know that is just what is a-going to happen.

A few of the events listed on the local entertainment program so far as perfected, are carriage and automobile rides for the ladies, including a trip through the world-famed Rock Creek Park, luncheon *en route*; reception and entertainment in the great Congressional Library, from the café of which magnificent views may be had of the city of Washington, Soldiers' Home, Naval Observatory, Potomac River, city of Alexandria, Arlington National Cemetery, Lee estate, Fort Meyer, and other interesting historic spots, and a concert by the United States Marine Band.

Special arrangements have been made in the various departments of the United States Government to show particular attention to all members wearing the S. A. F. badge, so, whatever department any one may be interested in, he may rest assured everything will be done to impart information.

Special guides will be in attendance at United States Propagating Gardens to show and explain their method of greenhouse building, planting and experimenting. The White House greenhouses adjoining will be found very interesting, and at the Agricultural Department there is enough to keep those interested busy for weeks.

Sporting matters are well in hand, and bowling will be taken care of in the most up-to-date manner. Numerous valuable prizes to be contested for are already provided, both for ladies and gentlemen, and the superintendent of the culinary has promised that no one taking part in these pleasurable exercises shall go hungry or thirsty while thus engaged.

The gentleman in charge of the prize-shooting contest has given assurance that nothing will be lacking to make this an eventful afternoon for all those who may take part in it, and those who accompany them. The grounds of the Analoatan Gun Club have been secured for this occasion, and the same are most favorably situated within twenty minutes of Convention Hall, easily accessible by a

car system second to none in the United States. Mr. Z. D. Blackstone will have charge of this event, which alone should be enough to assure success. And there are other very pleasing announcements yet to be made.

Since writing the above, the report of the meeting of the Florists' Club of Washington, held on Monday, July 22, comes to hand, and we learn from it that the members favor a lawn fête or open-air reception for the president, in place of the customary in-door affair which has been held in connection with past conventions. It is proposed to have music by a band of fifty pieces while refreshments are being served throughout the evening.

It has been arranged to have the lawn lighted on this occasion by the full moon, assisted by several hundred incandescent lights, which no doubt will furnish a scene beautiful to the eye. Special cars will be provided to carry every one from the Convention Hall out to the scene of action. Music, refreshments, and good cheer will be in such abundance that the hosts trust those present will call themselves fortunate in being able to participate in the auspicious opening of what the Washington florists hope to make one of the most successful meetings in the history of the national society.

Wreath of Sweet Peas



The wreath herewith pictured was one of the most beautiful of the numerous floral tokens sent to the funeral of the late Secretary Hay: It was composed of lavender sweet peas and ferns, and was the gift of the Japanese minister and his wife.

Plateau of Plants and Flowers



The illustration shows a plateau filled with growing ferns. We have small japanned tin tubes that hold water in which we put the stems of flowers. We think this is particularly good for warm weather.

H. H. Battles,

The Hardy Flower Garden

II

Delphiniums are just in. *D. Cashmirianum* is a little earlier than the *D. elatum* hybrids. Of the latter there are several named varieties, but with careful selection one can get a good and tolerably permanent strain. *D. chinensis* of the "Butterfly" type is very dwarf and excellent for front lines. *Gillenia trifoliata* is very light and graceful. It is excellent for cutting and should be useful for florists in bouquet work. Its spray-like panicles of white flowers are very effective. The old garden heliotrope, *Valeriana officinalis* is rather coarse, but very striking. *Hemerocallis flava* is the earliest of the day lilies. *H. Middendorffiana* is orange colored, and just coming in. *Spirea aruncus* has large panicles of white flowers and handsome foliage. *S. Knieffii*, finely cut, fern-like foliage, and long compound panicles. *S. astilboides*, the very graceful white we are familiar with in florists' windows in spring, forced for early bloom; *S. (Astilbe) japonica*, a long time favorite; *S. chinensis*, long spikes of pink; *S. lobata*, tall, broad leaved, with corymbs of light pink flowers; *S. palmata*, pink, and *S. Ulmaria*, white — all are good border flowers, in bloom at this time.

Penstemons, in species, not hybrids, give us a va-

riety of neat plants, and beautiful flowers. *P. diffusus* has bright purple, open-throated flowers. *P. spectabilis*, similar in bloom, but different in habit; *P. secundiflorus*, smooth foliage and one-sided inflorescence; *P. ovatus*, less showy, but distinct; *P. campanulatus*, reddish pink; *P. pubescens*, light pink. Sweet williams are old-time favorites. There are some very fine strains of these, with white bordered flowers; careful selection is necessary to keep up the standard. *Orobis lathyroides* is a peculiar and showy vetch, with purple, pea-like flowers; *Lilium Hansonii* is a delicately orange-tinted kind, evidently related to *L. Martagon*. It is one of the first to bloom. *Violas* are always interesting. Those known as Scotch pansies need a half-shaded place with moist soil to succeed well. Then they will bloom the whole season. *V. cucullata* is a true perennial and accommodates itself almost anywhere.

Hybrid columbines have lasted a long time; nothing is more pleasing than these crosses between *Aquilegia chrysantha*, *A. coerulea*, and *A. canadensis*. We get all the combinations possible between blue, yellow, and red. *Coreopsis grandifolia* is the earliest and the best — superior to *C. lanceolata*. In *thalictrum*s or meadow rues we have very handsome foliage; some very finely divided as in the varieties minus and *adiantifolium* of *T. aquilegæfolium*. *T. glaucum* has yellow flowers, and bluish foliage. *T. Coulteri*, white flowers. *Achillea aurea* is a gem in this family, with mossy green foliage and yellow flower heads. *A. ægyptiaca* has hoary foliage and yellow flowers; *A. millefolium* roseum, pink flowers; *A. ptarmica*, the Pearl, double white flowers, which latter are excellent for cutting.

The list is getting long, but we must not omit pyrethrums and potentillas, both old-time garden flowers very common in England, but requiring a little more care here. They are liable to die in summer, and one has to see that a stock of young plants is kept up. Lupines, both perennial and annual, are charming garden flowers, and always please; foxgloves and Canterbury bells, not to forget the old-time *Campanula pyramidalis*, not quite in yet. There are speedwells, mostly of the *Veronica Teucrium* type; some *V. incana* and *V. gentianoides*.

Climbing and bush roses should never be neglected. Among bush forms, there are the damask, the sweet briars, the *R. lucida*, and its variety *alba*, *R. Caroliniana*, *R. Arkansana*, *R. cinnamomea*, *R. spinosissima*, *R. blanda*, the Egan and the Arnold. Climbers are the Farquhar, Rambler, Helene, Dawson, Minnie Dawson — a double *R. multiflora*, Leuchstern, a single, similar to Walsh's *Hiawatha*, Rubin, pretty deep red, and the prairie, *R. setigera*.

J. D. Hatfield

Wellesley, Mass.

Echoes from England

A SWEET PEA SHOW

The National Sweet Pea Society is only five years old, yet on July the 4th it held an exhibition that filled the magnificent new hall of the Royal Horticultural Society in London. It was quite a record show; there were more than 1,000 bunches of sweet peas shown and the exhibitors numbered 100. In one class alone there were thirty-six competitors.

The improvements which have been effected in the sweet pea during recent years are remarkable, and the latter day varieties are most beautiful flowers. One of the finest displays for competition was that exhibited by Henry Eckford, the *doyen* of sweet pea specialists. Undoubtedly the finest flower in his group was Henry Eckford, a flower worthy to be given the honor of a name that is a household word among sweet pea growers. This variety, unique in its rich orange-salmon coloring, I described in a recent letter. Other very fine sorts in Mr. Eckford's group were Romolo Piazzani, rich violet blue; Horace Wright, the standard dark purple, the wings brighter purple; Miss Eckford, buff pink, a very dainty sort; Scarlet Gem, rich crimson scarlet; Little Dorrit, standard rose, wings bluish colored; Miss Philbrick, true light blue. All these are really good sorts and well worth mentioning in addition to those mentioned below which were given certificates of merit by the National Sweet Pea Society.

NEW SWEET PEAS

A silver medal as the best new sweet pea of the year and a first class certificate were awarded to the variety Helen Lewis, a large and beautiful flower of rich coloring, best described perhaps as orange-red. It is a sport from the pink Countess Spencer. This orange-red color is a very popular one among sweet peas at present, and many of the newest varieties are of that shade. The exhibitor of Helen Lewis was Mr. J. Watson, Orford House Gardens, Ham, Surrey.

Evelyn Byatt is another new variety shown by the well known seed growers, Messrs. Watkins and Simpson, Tavistock street, Covent Garden. It is not a large flower but the color is very striking, the stan-

dard a deep shade of orange-red, the wings having more red in them. Helen Pierce is another good new sort shown by Messrs. Watkins and Simpson. Seen from the front the color is pale blue, veined on a blue white ground; seen from behind the shade is a much deeper one, although the veining is quite distinct.

Mr. W. Bolton, Carnforth, gained an award of merit for the varieties Tom Bolton and Mrs. Hardcastle-Sykes. The former is a beautiful deep lavender-colored flower, the standard being, as is usual, a deeper tint than the wings. The latter is a charming deep pink variety, rather a deeper shade of the same color at the edges.

Queen Alexandra, exhibited by Henry Eckford, is a good deal like his famous Scarlet Gem, but it is rather deeper, a really good crimson, in fact, and it is said not to burn in the sun, a fault that some varieties have. A sweet pea, no matter how delicate and beautiful its coloring, loses a good deal of its value if it fades in hot, bright weather. This the new Queen Alexandra is said not to do.

THE BEST STANDARD VARIETIES

It may be interesting and of some value also just to merit those varieties which obtained the first prizes in the class for sweet peas of a certain color at the National Sweet Pea Show.

The classes were for two varieties of each color, so I give the two first prize sorts in each case. White, Dorothy Eckford and Blanche Burpee; crimson, Scarlet Gem and King Edward; blush, Sensation and Duchess of Sutherland; rose and carmine, Mrs. Dugdale and Prince of Wales; pink, Mrs. R. Smith and Countess Spencer; orange shades, Gorgeous and Miss Willmott; yellow or buff, Lady Ormesby Gore and Hon. Mrs. Kenyon; lavender, Countess of Radnor and Lady Grisel Hamilton; blue, Navy Blue and Captain of the Blues; mauve, Dorothy Tennant and Mrs. W. Wright; violet and purple, Mrs. Wright and Duke of Westminster; marone or bronze, Othello and Black Knight; magenta, Calypso and George Gordon; picotee edged, Lottie Eckford and Dainty; striped and flaked (red or rose) America and Aurora. Here you may be said to have a selection of the very best sweet peas as grown in English gardens to-day

Harry H. Thomas

London.



GROUP OF NYMPHEAS EXHIBITED BY H. A. DREER, AWARDED SILVER MEDAL AT NEWPORT EXHIBITION



DREER'S GOLDEN NANSUS, PANDANUS SANDERE IN FRONT OF GROUP AT NEWPORT EXHIBITION

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

**FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS**

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

The placing of a can full of gypsy caterpillars in the grounds of a nursery firm, near Boston, recently, was one of the most contemptible acts of malice on record. It is to be hoped that the scoundrel may be apprehended and the severest possible penalty allotted to him.

The despatches tell us that as early as last winter the collection and setting out of shrubs and trees for decorative effect was commenced at Jamestown, Va., in preparation for the exhibition to be held there in 1907. Willows, laurels, dogwoods, maples, water oaks and many other things by hundreds of thousands are already in position, in a district known for the luxuriance with which plants and flowers grow. This is a proper beginning. It was in the neglect of these features, until too late, that stupendous mistakes were made in every big fair held thus far in this country. This wise oversight promises well for the Jamestown enterprise, and there is another evidence of good judgment in the statement that it is proposed to preserve natural features, as much as possible, in the laying out and planting of the grounds.

It is to be hoped that members of the Society of American Florists and Ornamental Horticulturists, and many others who have not heretofore been identified with that organization, will take advantage of the excellent opportunity offered to see Washington under such pleasant circumstances as are outlined in the program for the approaching convention. The first convention in Washington city, thirteen years ago, was especially remarkable for the diversified character of its attendance, the visitors being appropriately drawn from all sections of the country,

and it is fitting that at the present time earnest effort should be put forth by those officially responsible to again insure widespread interest in every locality and every horticultural organization, so that the coming pilgrimage to the Capitol City may be a large and representative one, commensurate with the importance of the occasion and the magnificent preparations that are being made by the hospitable brethren of beautiful Washington.

In another column of this paper we present, as news matter, a California view of Japanese immigration, its effect on California's great horticultural industries, and a characteristic Californian remedy for the threatened evil. We, on the Atlantic seaboard, who have long been inured to the hard knocks of alien invasion, naturally regard these questions in a more philosophic and dispassionate spirit than is to be expected in the people of the Pacific coast whose influx (other than the Chinese incursion, which was promptly arrested) has been, until recently, almost entirely overland from the older-settled communities, and so distributed and controlled that it fell easily into established customs and manners. The free-and-easy, yet irresistible, frontier dash has always had a certain fascination for us of the older settlements, broken-in and well-subdued as we are by the struggle to hold our own against rigorous climate, refractory soil, and a half-century's deluge of "cheap labor." One does not need to be very ancient to remember the days of fierce prejudice against a race that has since given us fighters, scholars, politicians, and strategists of no mean rank; in later years we have seen many of the vast mercantile interests of the metropolis pass into the control of a race to which all Christendom seems more or less hostile; to-day the Italian has full possession of our fruit traffic, and is rapidly driving the "native" market-gardener of New England into exactly the same predicament with which the Japanese is threatening the "native" Californian; the Greek, uneducated and discordant, has a clutch on the cut-flower trade of New York City that cannot be broken. So we think we know something about it, and we can sympathize, as fellow-sufferers, with our brethren of the other coast. Yet we doubt not that native grit and resourceful industry will carry them through, as it has us, as they adapt themselves to new adjustments that cannot be escaped. In seeking for the best solution of the problem at its present stage, let moderation prevail, and let us not forget our great indebtedness to Japan and her remarkable people for much of what we prize most highly in horticulture. Chinese exclusion has not been an unadulterated blessing to California. We think it is now generally recognized that it has greatly retarded her development, and that the lack of a laboring element in her population is to-day a serious handicap to her industries.

A SAN FRANCISCO MOVEMENT

At a joint meeting of the Pacific Coast Horticultural Association and the Hortensia Gardener's Society of Oakland, both societies by a unanimous vote, declared themselves in favor of a resolution restricting Japanese emigration to this country. Among the speakers were: F. Ludeman of the Pacific Nursery, George Young of Dwight Way Nursery, H. Plath of Ingleside Nursery, Frank Pelicano of the San Francisco Calla and Fern Farm, and J. W. Bagge of the Pacific Coast Association's directory, and chief of the Crocker Estate gardeners. Mr. Bagge's address was a fair sample of addresses made by the other speakers, and from it, as reported by the stenographer at the meeting, the following brief excerpts are taken:

"Self preservation is the first law of nature; and while I admire, and believe we all admire and respect the distinctive patriotism and splendid fighting qualities and energy of the Japanese, duty requires that we be not unmindful of self interests and the interests of our families. Present conditions make it apparent that it is simply a matter of self-preservation for the white workmen to seek exclusion of the Japanese. Why? Not only because they are an alien race and cannot legally become citizens of the United States, and are here single-handed simply to earn money and take the money away, therefore, counting as a detriment, rather than an accession, to the welfare of the Commonwealth, but because they are able to subsist on very little and can undersell the white growers, who have their own and their family wants to supply, and who have to hire labor at fair prices, while the Mikado subjects who possess some capital import labor from Japan at less than the cost of living for a white man, not counting his wages. Surely the signs of the times plainly indicate that it is only a question of time until the Japs will have absorbed the flower trade, as they are absorbing other trades, unless laws are devised to stop their immigration."

AMERICAN POMOLOGICAL SOCIETY

In deference to many requests and suggestions, coupled with the difficulty of securing the speakers desired for an August meeting, the convention has been postponed till September 19-21, 1905. It will occur, therefore, at the Coates Hotel, Kansas City, the place first announced, and under the same auspices. This change assures a good attendance, a good fruit exhibit, a cool, pleasant temperature, and an excellent program.

All arrangements, as first announced (consult circular), will be carried out. Come with your wives and daughters, prepared for an instructive and entertaining meeting.

JOHN CRAIG, Secretary.

ITHACA, N. Y., July 18, 1905.

OBITUARY

Edward Pesenecker, of Jersey City, N. J., died on July 16, at the age of 45 years.

Albert Miller, Cincinnati, O., died on July 17, aged 21 years. He was employed by L. H. Kyrrk.

Henri Duval, junior member of the firm of Duval & Sons, died at Versailles, France, on June 29, aged 35 years.

George L. Clark, a well-known landscape gardener of Weston, Mass., died of heart failure on July 24, aged 57 years.

L. P. Kelley, of Chicago, died last Sunday evening after a short illness. Mr. Kelley, who was employed at E. C. Amling's, took sick very suddenly on Saturday morning with pleurisy and was confined to his bed but two days.

PERSONAL

A. C. Oelschig, of Savannah, Ga., sailed for Europe on July 25.

A. J. Lovell, of Lenox, sailed for Europe on Wednesday, July 26.

Norris F. Comley and family, of Lexington, Mass., sailed on a trans-Atlantic trip on July 18.

J. J. Slattery, of Thos. F. Galvin's, Boston, was slated to Miss Mary McCarthy, on July 19.

John Dingwall, of Albany, had a very narrow escape last Saturday, from death, by Paris green poisoning.

Dr. N. L. Britton, of the New York Botanical Garden, who started for Europe on May 27, returned on July 15, after participating in the International Botanical Congress at Vienna and visiting a number of European gardens.

Harry Cowles, for the past five years assistant to A. Griffin, has secured the position of gardener to Mr. Reginald Norman, South Portsmouth. Mr. Cowles is one of the most deservedly popular of the younger members of the craft in Newport, and with him to his new field, go the best wishes of all who know him.

The Shanahan Floral Co. of San Francisco are exceptionally fortunate in securing the services of Henry J. A'Horst, formerly associated with J. W. Howard, of Somerville, Mass., whose original and practical instruction was gleaned while in the employ, for eleven years, of L. van Leeuwen & Son, bulb growers of Sassenheim, Holland.

Vacationists going:—Mr. and Mrs. Chas. F. Feast and Mrs. J. E. Feast, of Baltimore, will spend a week at Norfolk, Va. Mrs. F. R. Hill goes for two weeks to Newport News and New England.

Vacationists returning:—Mr. and Mrs. Wm. Feast, of Baltimore, Md., have just returned from a ten-days' stay at Allenhurst, N. J., and Wm. P. Nolan comes back from the seashore.

O. W. Freese, of Pohlmann Bros., and Charles Zoppe, of J. A. Budlong's, Chicago, have also returned.



THE LATE LOUIS SIEBRECHT

NATIONAL HORTICULTURAL COUNCIL

The Committee appointed November last at the World's Fair in St. Louis, consisting of the following persons: Professors Samuel B. Green, L. H. Bailey, L. R. Taft, Messrs. J. H. Hale, J. C. Vaughan, J. H. McFarland, and H. C. Irish, for the organization of a Horticultural Council, met pursuant to call, July 2, 1905, in Chicago. There were present, of the Committee above-named, Professors Bailey and Taft, and Messrs. J. C. Vaughan and H. C. Irish; also by invitation, C. E. Bassett, of the Michigan Horticultural Society, O. C. Simonds and M. Barker, of Chicago.

Following a full discussion the aim, scope, and composition of the organization was adopted as follows:

Name: National Council of Horticulture.

Object: To fraternize and concrete the Horticultural interests of North America; to consider the questions of public policy and administration which are common to these organizations; to act as a bureau of publicity in the interests of reliable information pertaining to horticulture in its broadest sense.

Composition: The membership shall consist of two delegates elected or appointed by each National Horticultural Society, with nine delegates at large. The Council shall elect an Executive Committee of nine persons, at least five of whom shall be delegates at large.

As a basis for the first permanent organization of the Council the preliminary organization was retained and the following added to the Committee, making the nine delegates at large as follows:

Prof. L. H. Bailey, Prof. L. R. Taft, Prof. Samuel B. Green, W. W. Tracy, Washington, D.C., J. H. Hale, J. Horace McFarland, H. C. Irish, Prof. E. J. Wickson, University of California, Berkeley. Prof. W. T. Macoun, Ottawa, Canada.

Three of these are to serve one year, three for two years, and three for three years, or until their successors are elected by the Council.

J. C. Vaughan was retained as Chairman, pending the final organization, and H. C. Irish as Secretary.

The first work outlined for the organization was to enlist the active cooperation of the leading national societies on the lines named in the objects of the society; and the Secretary was instructed to prepare circular letters placing the matter before such societies at their next annual meeting, or through the officers or executive committees.

Messrs. Taft, Irish, and Bassett were appointed a Committee to attend the meeting of the American Pomological Society, at Kansas City.

The meeting then adjourned, subject to the call of the Chairman, in October next, when it is hoped to meet with the American Civic Association at Cleveland, Ohio.

NEWPORT HORTICULTURAL SOCIETY

A regular meeting of this society was held on July 19, Mrs. Webster, who was expected to make an address, was unable to be present. Richard Gardner exhibited two new pink seedling ramblers roses, one of which, named Newport Fairy, was awarded the society's silver medal. The other received a certificate of merit. Andrew S. Meikle had on exhibition a dozen blooms of Farquhar's new Lilium Philippense, to which the society's silver medal was awarded. This lily was illustrated in the frontispiece of HORTICULTURE's issue of April 8th. M. B. Faxon exhibited a good collection of sweet peas, for which he was awarded a certificate of merit. In the early life of the society exhibits at meetings, such as these were pleasant and profitable features.

1884

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

1905

Preliminary program of the twenty-first annual meeting and exhibition to be held at Washington, D.C., August 15, 16, 17, and 18, 1905. Meetings at Carroll Hall, G St., between 9th and 10th, N. W. Exhibition at National Rifles Armory, G St., between 9th and 10th, N. W.

OFFICERS FOR 1905

President, J. C. Vaughan, Chicago, Ill.
Vice-President, J. R. Freeman, Washington, D.C.

Secretary, Wm. J. Stewart, Boston, Mass.
Treasurer, H. B. Beatty, Pittsburg, Pa.
Directors, for one year, George C. Watson, Philadelphia, Pa.; R. F. Tesson, St. Louis, Mo.

For two years, H. M. Altick, Dayton, O.; Theodore Wirth, Hartford, Conn.

For three years, V. H. Hallock, Queens, N.Y.; W. H. Elliott, Brighton, Mass.

State Vice-Presidents, Ala., Hugh Seale, Birmingham; Cal., Hans Plath, San Francisco; Colo., J. A. Valentine, Denver; Conn., John Coombs, Hartford; D.C., George H. Cooke, Washington; Fla., C. D. Mills, Jacksonville; Ga., A. C. Oelschig, Savannah; Ill., So., John Willius, Danville; Ill., No. P. J. Hauswirth, Chicago; Ind., Irwin C. Bertermann, Indianapolis; Ia., Theodore Ewaldt, Des Moines; Kan., C. P. Mueller, Wichita; Ky., Fred L. Schulz, Louisville; La., Harry Papworth, New Orleans; Md., R. Vincent, Jr., White Marsh, Mass., E. W. W. Edgar, Waverley; Mass., W. Thomas Collins, Hinsdale; Mich., Henry Smith, Grand Rapids, and R. G. Boehringer, Bay City; Minn., O. J. Olson, St. Paul; Mo., E. F. J. Fillmore, St. Louis; Mo., W. Albert Barbe, Kansas City; N.J., C. W. Turnley, Haddonfield; N.Y., E. F. H. Traendly, New York City; N.Y., W. George W. McClure, Buffalo; N.C., James M. Lamb, Fayetteville; Ohio, N. E. B. George, Painesville; Ohio, So. H. M. Altick, Dayton; Pa., E. H. H. Battles, 108 So. 12th St., Philadelphia; Pa., W. Fred Burki, Gibsonia; R. I., Arthur Griffin, Newport; S.C., C. A. Moss, Spartanburg; Tex., H. Kaden, Gainesville; Va., W. A. Hammond Richmond; Wis., George Vatter, Marinette, and W. A. Kennedy, Milwaukee; Ontario, T. W. Duggan, Brampton.

Botanist, Prof. L. H. Pommer, Ames, Ia.; pathologist, Dr. B. M. Duggar, Columbia, Mo.; entomologist, Prof. Herbert Osborn, Columbus, Ohio; superintendent of exhibition, George H. Cooke, Washington, D.C.; sergeant-at-arms, J. D. Carmody, Evansville, Ind.; plant registration in charge of Secretary.

Legislative committee, Elmer D. Smith, Adrian, Mich.; J. A. Valentine, Denver, Colo. Benj. Hammond, Fishkill-on-Hudson, N.Y.

Exhibition judges: John T. Temple, Davenport, Ia.; A. L. Halstead, Belleville, Ill.; Joseph A. Manda, South Orange, N.J.

Convention sports committee: Phil. J. Hauswirth, Chicago, Ill.; John Westcott, Philadelphia, Pa.

TRANSPORTATION

A reduced rate of one and one-third fare, on the certificate plan, for the round trip, having been secured from all railroad and steamship lines in the United States represented in the trunk line and passenger committee, the following directions are submitted for the guidance of members:

1. Tickets at full fare for the going journey may be secured within three days (exclusive of Sunday) prior to and during the first day of the meeting. The advertised dates of the meeting are from August 15 to August 18, consequently you can obtain your ticket not earlier than August 11 nor later than August 16. (Except from

stations from which it is possible to reach the place of meeting by noon of August 17, tickets may be sold for morning trains of that date.) Be sure that, when purchasing your going ticket, you request a "certificate." Do not make the mistake of asking for a "receipt."

2. Present yourself at the railroad station for ticket and certificate at least 30 minutes before the departure of train.

3. Certificates are not kept at all stations. If you inquire at your station you will find out whether certificates and through tickets can be obtained to place of meeting. If not, agent will inform you at what station they can be obtained. You can purchase a local ticket thereto, and there take up a certificate and through ticket.

4. On your arrival at the meeting, present your certificate at once to Secretary Stewart, accompanied by a fee of twenty-five cents, which will return the certificate to you after it has been duly validated, for return journey. No refund of fare will be made on account of failure to have certificate validated.

5. It has been arranged that the special agent of the Trunk Line Association will be in attendance to validate certificates on August 16, 17, and 18.

If you follow the above instructions, and your certificate is duly validated, you will be entitled up to August 22, to a continuous passage ticket to your destination by the route over which you make the going journey, at one-third the limited fare.

THE TRADE EXHIBITION

The trade exhibition will be, as heretofore, a prominent feature in the convention. Growers of plants, seeds, bulbs, shrubs, and trees, dealers in florists' supplies, greenhouse requisites, building material for greenhouse construction, heating apparatus, etc., can here meet the best buyers in the horticultural profession, and no better opportunity for directing attention to the special merits of their goods can be found.

Attention of exhibitors and other parties interested is particularly called to the new system of judging, whereby the duties of the judges are limited to the consideration and making of awards to *Novelties and Improved Devices only*. Exhibitors are required to make previous entry of all such exhibits with the superintendent, in writing.

Full rules and regulations, together with diagrams of the exhibition hall, may be obtained from George H. Cooke, Superintendent, Connecticut ave., and L street, Washington, D.C., to whom all applications for space should be made as early as possible, as space is already largely disposed of.

SILVER MEDAL

A silver medal is offered for the best display of cut flowers in vases. Entries should be made with the Superintendent in advance.

RULES FOR TESTING

American growers of any forcing bulbs, plants or seeds hitherto supplied mainly from foreign sources, or dealers controlling stocks of such goods, are invited, as heretofore, to send samples of their product to the trade exhibition, where they will be given space, free of charge, provided that they then become the property of the Society for testing purposes as to their forcing qualities, results of said testing and awards for quality to be published the following season. Please make entries with the Secretary.

EXHIBIT OF DEPARTMENT OF AGRICULTURE

A special display will be made by the Department of Agriculture in Carroll Hall. This feature is expected to be one of the most interesting and instructive ever presented at any S. A. F. Convention.

PROGRAM

OPENING SESSION TUESDAY, AUG. 15, 2 P.M.

The opening session will be devoted to addresses of welcome, the annual address of the President, and reports of Secretary, Treasurer, State Vice-Presidents, Committees, and other officials of the Society.

JUDGING EXHIBITS

Judges will examine and prepare their reports upon the novelties and new inventions in the trade exhibition immediately after the close of the opening session.

PRESIDENT'S RECEPTION, 7:30 P.M.

This always-popular social feature will be held on Tuesday evening, under the auspices of the Washington Florists' Club. Music and refreshments.

SECOND DAY, WEDNESDAY, AUG. 16, 9:30A. M.

Following reports of judges at the morning session, Wednesday, August 16, the prize essays prepared by members on the subject of The Ideal Employer will be presented and the awards announced.

SELECTION OF NEXT MEETING PLACE AND

NOMINATION OF OFFICERS

The selection of the location of the next meeting (polls open one hour), nomination of officers and roll-call of States for nominations for State Vice-Presidents for next year will take place at this session.

LECTURE

Work of the Bureau of Plant Industry, U. S. Department of Agriculture, in its relation to Floriculture and Horticulture, by B. T. Galloway, Chief of Bureau, illustrated by stereotyped slides.

BOWLING TOURNAMENT 2 P.M.

The bowling contests between teams representing the various Florists' Clubs will take place at the Bowling Alleys, corner 8th and E streets. Many valuable trophies have been donated. For instructions as to entries, etc., address Phil. J. Hauswirth, 227 Michigan ave., Chicago, Ill.

LECTURE 8 P.M.

The Work of the Bureau of Plant Industry in Encouraging Civic Improvement, and the Teaching of Horticulture in the Public Schools, by Miss Susan B. Sipe, Washington, D.C., illustrated by stereotyped slides.

QUESTION BOX

The Question Box will be opened after the close of the lecture, and a general discussion will be in order upon a number of pertinent subjects, including plants worthy of more general use as summer bedders; handling of carnations between time of cutting and marketing; effect of cold storage in retarding prony blooms; should the S. A. F. have a winter meeting or exhibition, and if so, how arranged?

THIRD DAY, THURSDAY, AUG. 17, 6:30 A.M.

Subjects for discussion at the morning session, Thursday, August 17, will be: Helps to Floriculture in the South and Southwest.

The feasibility of preparing a Text Book of Horticulture for dissemination by Florists' Clubs.

ELECTION OF OFFICERS 10 A.M.

During the discussion the election of officers for 1905 will take place, the polls being kept open two hours.

QUESTION BOX

The Question Box will be opened during the voting. Among the questions already received for discussion at this time is the following: Should this Society countenance the substitution of popular appellations for cumbersome and often unpronounceable foreign names of new plants introductions?

HALL ASSOCIATION 2 P.M.

The Florists' Hall Association of America will hold its annual meeting in the Convention Hall at 2 P.M.

CARNATION SOCIETY 4 P.M.

The American Carnation Society will meet in the Convention Hall at 4 P.M.

LECTURE 8 P.M.

The Ideal Country Home for the Man with a Long Head and a Short Purse, illustrated by stereopticon slides. By Oglesby Paul, Philadelphia, Pa.

FOURTH DAY, FRIDAY, AUG. 18

Friday will be Washington Florists' Day. Full particulars of the program for this day will be announced later.

U. S. DEPARTMENT OF AGRICULTURE

The Secretary of Agriculture desires to extend the courtesies of the Department to the members of the Society of American Florists. The officers of the various Bureaus of the Department will be glad to give information along the respective lines of work.

The Bureau of Plant Industry is conducting many lines of investigation which may be of interest to florists. A cordial invitation is extended to members of the Society and their friends to visit the greenhouses and conservatories, to inspect the work on the improvement of plants by breeding and selection, and the work of studying plant diseases, especially diseases of plants under glass. The trial grounds and testing gardens of the Bureau of Plant Industry will also be open for inspection at all times.

Special points of interest which the members may be desirous of noting are the testing plots on the Department grounds proper, the testing grounds on the flats located a mile south of the Department buildings, and the Arlington Farm, where various horticultural lines of work are under way. This farm is located near Arlington Cemetery and is reached by trolley in about twenty minutes. The various laboratories will be open for inspection at all times, and officers of the Bureau of Plant Industry will be delighted, especially to show visitors the various lines of work under way.

For the information of visitors, a fine collection of gladioli and other bulbous plants has been made, and they may be seen growing on the Department grounds.

NOTICE TO CONVENTION VISITORS

In order to facilitate the management in their arrangements for the entertainment of the visitors to the S. A. F. Convention, it is respectfully requested:

1st. That all ladies contemplating coming, will kindly send in at once their names to Mrs. Joseph R. Freeman, Chairman Ladies' Entertainment Committee.

2d. That all teams or individuals wishing to enter the bowling contest will send in their names to Mr. Wm. H. Earnest, Station M, Washington, D.C., Chairman Committee on Bowling.

3d. That ladies wishing to enter Ladies' Bowling Contest, will send in names to Mr. F. H. Kramer.

4th. That all wishing to enter Shooting Contest, will send in names to Z. B. Buckstone, Chairman Committee on Shooting, cor. 14th and H streets.

Department of Plant Registration

Mr. Edward Amerpohl, of Janesville, Wis., submits for registration *Nephrolepis Amerpohii*, sport of *Nephrolepis Piersonii*; has the compactness of *N. Piersonii* elegantissima and resembles it closely except that the pinnae are again cut and subdivided until the frond has the appearance of a piece of lace-work.

Richard F. Gloede, Evanston, Ill., submits for registration, seedling geranium Mrs. Richard F. Gloede. Flower semi-double, very large; color, rose pink; foliage, dark green, zoned; growth, exceedingly strong; tested three years.

WM. J. STEWART, Secretary.

GARDENERS' AND FLORISTS' CLUB OF BOSTON

The annual picnic of this club at Randolph Grove, on July 25, was a distinct success and the officers of the club who have worked so earnestly and faithfully to give all a good time, deserve the highest praise and congratulation. The main features of the day were the games and competitions for the numerous prizes that had been contributed by members and friends. About one hundred and fifty were in attendance, including a majority of women and children, and there were few that did not win something. J. C. Vaughan, president of the S. A. F., being present, was called upon to officiate as judge in the baby competition, no local man having the courage to face the consequences. Mr. Vaughan was the winner of a prize himself, coming in second in the foot-race for men over 50 years of age, being distanced by feet-tooled M. H. Norton. Another race that created great excitement was that for fat men, President Wheeler coming in first and Duncan Finlayson, second.

The boys beat the men at baseball, 14 to 4. The boys were Cannell, Worthington, P., McPhail, Hodgson, Patten, C., Mullen, Collins, Dillon, McDermott. The men, Roy, Low, W. Wheeler, C., Craig, Sanford, Bolton, K. Finlayson, Palmer, Fisher, P. Crick was played with a score of 35 to 31. The winning team and score were as follows: Wheeler, 8; Craig, 2; McDermott, 5; Riggs, 0; Bolton, 0; Robertson, 0; Martin, 3; Stevens, 1; Mullen, 5; Collins, 0; McKenzie, 2. The losers were Palmer, 0; Patten, 8; Colley, 5; Cannell, 0; Worthington, 2; Low, 4; Finlayson, 0; Lumsdew, 7; Marshall, 0; Walters, 0; Mortimer, 5.

Other prizes awarded were as follows:

Croquet contest for ladies, Florence Palmer, Florence Eisenhardt; foot race for boys, 10 years and under, 1, Victor Heurlin, 2, Geo. Manning; foot race for girls, 10 years and under, 1, Florence Lumsden, 2, Louise Bolton; foot race for boys, between 10 and 16, 1, Geo. Palmer; 2, Harold Hodgson; foot race for girls, between 10 and 16, 1, Jennie Mallinson; 2, Louise Eisenhardt; foot race for married ladies, 50 yards, 1, Mrs. A. Eisenhardt; 2, Mrs. J. Heurlin; foot race for young ladies (over 16), 100 yards, 1, Adie Hoxie; 2, Ethel Roy; sack race, 100 yards, open to all; 1, Harold Patten; 2, Wm. Collins; foot race, 100 yards, Club members only, 1, Wm. Collins; 2, Frank Cannell; foot race, 100 yards, fat men over 200 pounds, handicap, 1, Jas. Wheeler; 2, Duncan Finlayson; foot race, men over 50 years of age, 1, M. H. Norton; 2, J. C. Vaughan; potato race for ladies, 1, Adie Hoxie; 2, Louise Eisenhardt; three-legged race for men, 1, W. J. Collins and F. McDermott; 2, Jas. Wheeler, and A. Low; quilt match, 1, Alex. M. Robertson; 2, Geo. Jenkins; running high jump, open to all, 1, Alfred Martin, 5 ft. 6 in.; 2, A. M. Robertson, 5 ft. 5 in.; running hop, skip, and jump, 1, Wm. Collins, 40 ft. 5 in.; 2, A. Robertson, 34 ft. 10 in.; running

long jump, 1, W. Collins, 17 ft. 10 in.; 2, A. Robertson, 16 ft. 5 in.; throwing 12-pound shot, 1, W. Collins, 35 ft. 9 in.; 2, A. Martin, 35 ft. 3 in.; throwing 12-pound hammer, 1, W. A. Riggs, 88 ft.; 2, W. Collins, 82 ft. 10 in.; race for girls, 1, Florence Lumsden; 2, Louise Eisenhardt; race for boys, 1, Sabin Bolton; 2, Robt. Marshall; best looking baby under 21 years, 1, Gustaf Richard Peterson; 2, Dorothy Palmer; best looking infant, 1, Kenneth R. Craig; race for small boys, 1, John Sisson; 2, Frank Wheeler; 3, Spencer Heurlin.

FUN AND FROLIC AT MONTREAL

The sixteenth annual picnic of the Montreal Gardeners' and Florists' Club to Otterburn Park on Wednesday, July 10th, was in every way successful. Though showers fell in the early part of the day, it cleared later and the large company was favored with fine weather conditions. The quilt match for the silver cup was keenly contested, Wm. Hazell and A. Walker entering the final. Hazell carried off the cup after a well-earned victory. The tug-of-war of gardeners and florists resulted in an easy win for the florist men. Races for all ages were of much interest, many valuable prizes being given. The results were as follows:

Young ladies from 15 to 20 years, Miss J. Bennett; young men from 15 to 20 years, Mr. R. Jackson; ladies over 20 years, Miss Carmichael; members' wives over 40 years, Mrs. Higgins; men's race (open entry), Mr. L. St. Pierre; members' wives, Mrs. H. J. Eddy; members under 40 years, Mr. J. Luke; members from 40 to 50 years, Mr. Wm. Hazell; members over 50 years, Mr. Gibb; boot race (lace boot only), Mr. E. Hayward; running, hop, step, and jump, Mr. J. C. Eddy; thread and needle race (lady and gent.), Mr. Walker and Mrs. Carmichael; walking match (members only), Mr. A. Walker; bean guess, Mr. Gayot and Miss Duncan.

NOTES

The Kentucky Society of Florists will hold its regular monthly meeting on Tuesday, August 1st. A good attendance is desired, as important matters will come up for attention.

The St. Louis Florists' Club picnic was marred somewhat by the rain, which fell all day, only stopping during the dinner hour. About seventy-five were present and, in spite of the inclemency of the weather out side, managed to have a royal good time indoors. The games were played under a pavilion.

At Horticultural Hall, Boston, the usual Saturday exhibition was held on July 22. It was unimportant as compared with some of its predecessors. A fine display of aquatics and achimenes was made by Harvard Botanic Garden. T. C. Thurlow and H. A. Stevens showed excellent collections of hardy phloxes and L. M. Towles' showing of sweet peas was also good. Fruit and vegetables were good, as usual.

STAFFORD'S

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A Day Among the Sweet Peas

I think it was in 1885, just twenty years ago, that the writer induced the firm of Joseph Breck & Sons to catalogue the Eckford sweet peas. There was the first American catalogue to list this improved strain of an old garden favorite; four years afterwards, the Philadelphia firm of John Gardiner & Co., with which the writer was then associated, color plated them; but it was only when, in the early nineties, the house of Burpee took hold of them that the Eckford creations got their real boom in America. During the past ten years, the popularity of the sweet pea has been constantly increasing and improvements in the various types have made corresponding progress.

To thoroughly realize what this improvement means, one must visit the Burpee trial grounds at Fordhook in early July, when the bloom is at its best. Accordingly the writer spent a day recently in the interests of the readers of HORTICULTURE in noting the field trials of hundreds of varieties of sweet peas. In company with genial Edward Campbell, I was shown over the trials by Mr. Darlington, Mr. Burpee's farm superintendent, who is a walking encyclopaedia on this special subject, and later we were joined by general manager Earl, who had but that very day returned from his European trip and was primed with the latest sweet pea information. Following are my field notes on a few of the newer varieties as well as some of the older sorts that still hold their own for various reasons:

Dorothy Eckford; this is Mr. Eckford's latest. It is pure white, very large size; mostly two, occasionally three, on a spray, a flower here and there showing a tendency to double; better substance than *Blanche*.

Josephine White (Ferry); another white apparently an early selection of Emily Henderson. Dwarf, long stems. Good for indoor culture.

Mont Blanc (Benary); same type as foregoing, but earlier and dwarfer; claimed by many to be the best white for forcing. Personally I think *Zvolanek's Christmas* better—the latter producing a larger percentage of four on a spray.

Blanche Burpee; the parent of *Dorothy Eckford* and the finest white up to the advent of that magnificent flower. Sadie Burpee; same color; taller standard. Not as good substance as *Dorothy*, and shows a tinge of pink occasionally.

White Wonder; very large and of good substance; twin or branching sprays, bearing six to eight flowers on a spray. A good many of the flowers come double. Mr. Campbell said he had seen this variety growing in Canada ten feet high and with thirteen flowers to a stem.

Coquette; pale bluish standard with creamy wings. **Lady M. Ormsby Gore;** creamy white with primrose tint; large, free and vigorous.

Mrs. Eckford; Mr. Darlington says "pale primrose yellow." I must be color blind, for I couldn't see anything in it but a creamy white. "Well," said he, "it's as near yellow as we've got."

Queen Victoria; supposed to be an improvement on *Mrs. Eckford*; slightly more pronounced in color; larger standards and better substance.

Sue Earl; cream, with mauve edging. **Hon. Mrs. E. Kenyon;** came after *Queen Victoria*; I couldn't see any more yellow in it; but it has a larger flower.

Mrs. Fitzgerald (Eckford); apricot. Mr. Burpee's *Stella Morse* raised in California and sent out same year, is identical with this variety. I think this one of the most attractive of the so-called yellow shades.

Primrose; the original yellow which has "grown up" into *Mrs. Fitzgerald*, *Lemon Queen*; white with a cream standard; misnamed. **Duchess of York;** pale pink, one of the old Eckfords, but still a good one.

Modesty; white, flushed with pink; introduced by Mr. Burpee. Mr. Darlington says it is unusually pink this year. **Sensation;** white, flushed with pink; a little deeper than *Modesty*. *Alice Eckford* is the mother of these two.

Countess Spencer; one of last year's novelties from England. It is a lovely pink with fluted edges; darker than *Gladys Unwin*, but not so fluted in the standard. Both are good, but it is a mistake to suppose that either of these are in the forcing class as has been claimed, as neither will flower before the middle of February, indoors.

Countess of Latham; pale pink. Mr. Darlington says "coppery rose." I couldn't see it his way.

Crown Jewel; rose standard, wings lighter colored, but has a self effect. **Apple Blossom;** deeper than *Crown Jewel*; very soft, rich shade.

Black Michael; dark claret standard; wings brownish rose; a remarkable color and magnificent in size, form, substance, and growth; but more remarkable still for its dwarf habit and dark green foliage. Mr. Earl thinks this is the greatest novelty of them all.

David R. Williamson; something like the old "Blue and Purple," but much larger. **Rumola Piazani;** an Eckford; similar habit to D. R. Williamson; reddish mauve.

Mrs. H. Kendall Barnes; a new one from England, pale pink standard and wings. **Jeanie Gordon;** bright rosy standard with creamy wings. A 1904 Eckford. **Eliza Eckford;** bluish. **Katherine Tracy;** a fine shade of pink and good size, but comes only two on a spray. **Lovely;** a Grace Wilder pink. **Marchioness of Cholmondeley;** soft pink; one of the 1905 Eckfords.

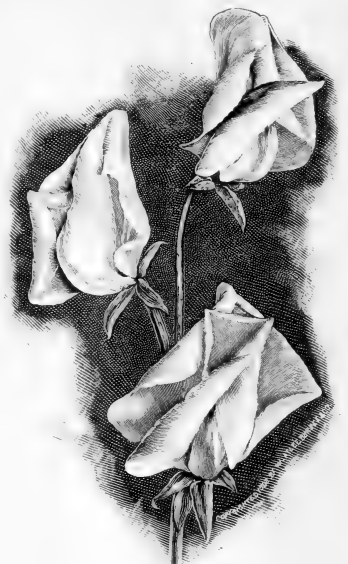
Agnes Johnston; bright rose; novelty 1905. **Grace Greenwood;** bluish edged with deep pink; a lovely and distinct shade. **Mrs. Katharine Smith;** after the style of *Countess Spencer*, with the same wavy edges, but not so much white tinting in the pink. A 1905 Eckford.

Prima Donna; old but good; a lovely shade of bright pink. Neck and neck with the new *Janet Scott*. **Royal Rebel;** a richer shade than *Prima Donna*.

Triumph; I cannot describe this better than in the words of Mr. Darlington, "A very much glorified *Blanche Ferry*."

Janet Scott; a fine pink, standard hooded, and with wings of unusual size. Deeper than *Katherine Tracy*, and three to a spray. Received an award of merit at last year's Temple Show. **Her Majesty;** very fine deep rose, the brightest and softest of its color; very large.

King Edward VII.; here we have something really magnificent; a glowing red self, which stands unrivalled in its class for color,



JANET SCOTT

form, size, substance, and all that goes to the make-up of the ideal flower. What *Dorothy Eckford* is in the whites or *Her Majesty* in the deep pinks, this one is among the reds.

Lord Kenyon; a deep pink self; fine large flower. **Lord Roseberry;** cherry; slightly lighter than *Lord Kenyon*. **John Ingham;** of a similar shade; even larger and if anything of better form.

Majestic; same shade as *Her Majesty*; perhaps a little darker. Three to a stem. One of *Burpee's* best introductions. **Mrs. Dugdale;** same type as *Her Majesty*, but later. **Prince of Wales;** this has been described as an improved *Her Majesty*; we do not think it is.

Coccinea; a fine bright color, but not otherwise notable. **George Gordon, Mars and Prince Edward of York;** are in the same class.

Salopian; this is the parent of *King Edward VII.* **Blackens in the sun;** but otherwise very little inferior to its successor. **Scarlet Gem;** this 1905 novelty has been highly lauded on the other side as a startling new color, but in our opinion does not equal *King Edward VII.*

Gorgeous; an American selection from *Lady Penance*. **Hon. F. Bouverie;** described as a salmon pink, or rather, "apricot." **Lady Mary Currie;** a rich salmon, shaded carmine. **Miss Willmott;** larger and more rosy; long stems.

Burpee's Earliest of All (Gould); a selection from *Blanche Ferry*; dwarfier and two weeks earlier. This year began to bloom June 6th when only a foot high. Excellent for glass culture. Belongs to same class as *Ferry's Josephine White*, *Benary's Mont Blanc*, and *Zvolanek's Christmas*. What we want now

is a dwarf early flowering self in red like King Edward and a lavender like Lady Grisell Hamilton or Flora Norton. Mr. Darlington says Earliest-of-All will bloom in nine weeks, which is one week better than the record for Zvolanek's Christmas.

Dainty; white, edged with pink, after the style of Modesty, but more pink. Novelty, 1905. Lottie Hutchins; cream, with a curious peaked shape. Lottie Eckford and Maid of Honor; varieties with similar shading; improvements on the old "blue and white."

Black Knight; an improved Boreatun; dark claret. Other good sorts noted among the maroon's were: Monarch, Othello, Duke of Sutherland, and Duke of Clarence. I liked Othello best of all.

Aurora; creamy white, flaked with salmon; one of the best in the variegated class. Other good ones noted were: Coronet, America, Gray Friar, Golden Rose, Pink Friar, Juanita, Mrs. Joseph, Amberlaine, Ramona, Princess of Wales, and Wawona.

Lady Grisell Hamilton; this pleases me best, among the light lavender's; larger and purer than Countess of Radnor. New Countess is also good, and two light lavender's sent out recently by Vaughan, Flora Norton and Mrs. George Higginson, Jr., are also extra fine.

Mr. Earl gave me some interesting news of Eckford's latest; but as I am in hopes of inducing him to write down some reminiscences of his trip abroad this summer, for the benefit of us stay-at-homes, I will refrain from that part of the subject at present.

Postscript: An artist with a keen eye to color has been comparing Blanche Burpee and Dorothy Eckford since the foregoing was penned, and he is inclined to think that the former is the snowier of the two. Mr. Earl tells me that Duchess of Sutherland (Eckford) and Modesty (Burpee) are identical. Both raisers were evidently working on the same selection that year. He tells me also that my estimate of Maid of Honor and Lottie Eckford does not chime with the accepted dictum of the experts, as most of them favor Maid of Honor. I cheerfully acquiesced, as I passed these two rather hurriedly.

G. C. WATSON

PHILADELPHIA NEWS NOTES

A specimen *Lilium auratum*, in an 8-inch pot with twenty-two flowers and standing five feet high, was exhibited this week at Michell's. While bigger things in this line are on record, this plant attracted considerable attention. It was grown by Arthur Mallon, gardener to Mrs. E. T. Scott, Darby, Pa.

The standing of the players in the convention tryout for bowling is as follows, with one home match yet to play and rotation and points as follows: Connor, 188.4; Moss, 172.3; Poltigs, 169.7; Yates, 163; Craig, 158; Dodds, 152.4; Watson, 151; Habermehl, 151; Harris, 149.3; Anderson, 149.2; Westcott, 141. Owing to an accident, Robertson drops out of fifth place and Craig now takes his place, with Dodds as sub, and this will probably be the team to go to Washington.

A meeting of the creditors of Joseph Kift & Son was held on the 21st inst. Samuel S. Pennock was appointed trustee and was instructed to continue the business until August 7th, and report in full, as to the situation and prospects.

Frank Politys is fitting up the store 1410 Chestnut street, and will occupy it as soon as completed. This is where another florist, Charles P. Poryzees, got burned out last Easter.

Emil Wohler, late with Nelson Brown, at Torresdale, has joined the forces of his brother, A. E. Wohler, in commercial rose growing and landscape business at Bala, Pa.

David Emery, a well-known and highly respected private gardener of this vicinity, has rented the Kruger greenhouses at Narberth and has taken his brother-in-law, William Morton, into partnership. The firm style will be Emery & Morton. Extensive repairs are now under way, and fall planting will soon be commenced.

Vacationists:—Mr. Wm. F. Kasting and family, of Buffalo, are spending a few days in Erie, Pa.

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Bride & Maid, Fan. & Sp.	5.00 to 6.00	to ...	to ...	4.00 to 5.00
Extra	2.00 to 4.00	4.00 to 5.00	5.00 to 6.00	2.00 to 3.00
No. 1 and Lower gr.	1.00 to 2.50	2.00 to 3.00	3.00 to 4.00	.50 to 2.00
Liberty, Fancy & Special	6.00 to 8.00	to ...	to ...	6.00 to 8.00
No. 1	1.50 to ...	2.00 to 3.00	4.00 to 5.00	3.00 to 4.00
Carnot and Kaiserin	2.00 to 8.00	1.00 to 3.00	.50 to 6.00	4.00 to 8.00
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Fancy Class	3.00 to ...	to 2.00	to50 to 1.00
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Cattleyas	50.00 to 60.00	to ...	to ...	to ...
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Asters	to ...	to ...	to ...	1.00 to 2.00
Mignonette	to ...	to ...	to ...	1.00 to 1.50
Sweet Peas	10 to 50	to 15	to15 to .25
Adiantum Cuneatum	.75 to ...	to 1.00	.75 to 1.00	to ...
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CUT-FLOWER MARKET REPORTS

BALTIMORE The market promises a slight advance over that of the preceding week, owing to the cooler weather; the great amount of rain has also helped to keep back the stock somewhat. The principal demands were for funeral work. Beauties still hold their own and good stock brings fair prices. Golden Gates are also good and find a ready sale. Carnations are limited; sweet peas are about over. Asters are coming in, and although small, are fair for the season. The white perennial phlox and Lilium rubrum, now so abundant, are welcome additions for funeral work.

BOSTON Extreme heat for a week, followed by a period of temperature considerably below normal has left flower crops in a condition that may be characterized as valueless. Receipts are light on all lines. Asters are the only item on the list showing any disposition to aspire. It is only a question of a few days until these will dominate everything else, and then a few days more will make them a burden. Business in all lines is at a standstill.

CHICAGO The past week has been quite satisfactory, financially, considering the season of the year, and the quality of stock which is to be expected during the summer months. Roses and carnations, although not very plentiful and rather inferior in quality, were the selling articles on the market. Outdoor flowers of splendid assortment were offered at almost nothing. J. A. Budlong's cut of young teas is very fine, and they anticipate a large crop of first grade quality within two weeks. Good American Beauties are to be had in small quantities, and the demand, therefore, exceeds the supply, and consequently the result is \$4 per dozen for the best. Asters in many respects are improving, and are very salable. Sweet peas are moving as usual.

LOUISVILLE There is little improvement in conditions to record as yet. Roses of good quality have been abundant and have brought good prices. Lilies and asters could be had in small quantities; the few carnations that have been handled sold well.

PHILADELPHIA Stock is scarce and the demand seems to fit the crime. Carnations are of a fewness; but the quality is better than the pessimists make out. Roses are standing pat, especially Beauties and Kaisersines; Brides and Bridesmaids are somewhat microscopic as to size. A few Liberty are coming in from the back timbers and are good and welcome. Golden Gates all right and make the hungry ones smile. Lily of the valley has improved and is now earning its board. Cattleya Harrisoni is about the only orchid in the field at present. C. W. Bruton, the Napoleon of yellow dahlias, is on deck, as are also some good reds and singles. Asters more plentiful this week and much improved in quality. Sweet Sultan, sweet peas, and Lilium auratum are on view, and add artistic verisimilitude to a bald and uninteresting situation. But little stock goes to the fakirs. When these gentlemen are not working off Jersey water lilies, they kill time on the back streets with crap and base ball.

ST. LOUIS Roses very poor, and practically no sale for them. Carnations inferior and also unsalable. Asters coming in abundantly, as are also single tuberose stalks. These and gladioli are in supply far in excess of any demand.

BUSINESS CHANGES

H. L. Blind & Brothers succeeded Geddis & Blind Bros., at Pittsburg, Pa.

A new store has been opened by Steffan & Co., at 228 Flatbush Ave., Brooklyn, N.Y.

Jas. W. Neilson has leased the greenhouses of Orin Smith, Jr., at Pawtucket, R.I.

The Anchorage Rose Company, of Jefferson, Ky., has been incorporated; capital \$50,000.

H. C. Neubrand has removed from Terrytown, N.Y., to East Providence, R.I., where he has purchased a place and will go into business.

Mrs. P. Latour has leased her greenhouses, which are situated on East Parade avenue, Buffalo, to John Koerner, well known to the trade, who will carry on the business as heretofore.

G. H. Allen and F. L. Yeaw have purchased the estate containing the Kilder greenhouses in Waltham, Mass. Messrs. Allen and Yeaw are graduates of the Agricultural College at Amherst. They will call their place the Piety Corner Conservatory.

NEWS NOTES

The terrific wind and rain storm of July 18 partially wrecked the greenhouse of H. R. Mitchell & Son, at Waterville, Me.

Charles Hornecker, of East Orange, was the victim of a dishonest employee, who robbed him at various times of cash to a considerable amount, and on being suspected last week, managed to escape. The police are looking for him.

Our frontispiece shows a vase of sweet pea, Mont Blanc, grown by Wm. Sim, which took first prize at the exhibition in Boston, last spring.

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This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters. Block Letters, 140 2-inch size, per 100, \$2. Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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WANTED - Young man to take charge of carnation houses. Must furnish references. Situation will be open September 1st. Address Y. care of HORTICULTURE, at Hamilton Place, Boston.

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ROSES									
Am. Beauty, fan. and sp.	10.00	to 20.00	10.00	to 20.00					
" extra	6.00	to 8.00	6.00	to 8.00					
" No. 1	4.00	to 6.00	4.00	to 6.00					
" Lower grades	.50	to 2.00	.50	to 2.00					
Bride & Maid, fan. and sp.	3.00	to 4.00	3.00	to 5.00					
" extra	2.00	to 3.00	2.00	to 3.00					
" No. 1 and Lower gr.	.25	to 2.00	.50	to 2.00					
Liberty, fan. and sp.	6.00	to 12.00	6.00	to 12.00					
" extra	3.00	to 5.00	3.00	to 5.00					
" No. 1	2.00	to 3.00	2.00	to 3.00					
Carnot and Kaiserin	.50	to 5.00	1.00	to 5.00					
Golden Gate, Ivory, Chateau	1.00	to 4.00	1.00	to 4.00					
Killarney	.....	to .....	.....	to					
CARNATIONS									
Fancy Class	1.00	to 2.00	1.50	to 2.00					
General Class	.50	to 1.00	.50	to 1.50					
ORCHIDS									
Cattleyas	50.00	to 75.00	50.00	to 75.00					
BULBOUS									
Lilies	3.00	to 5.00	5.00	to 6.00					
Lily of the Valley	.50	to 2.00	1.00	to 2.00					
MISCELLANEOUS									
Mignonette	.....	to ..... .50	.....	to 1.00					
Sweet Peas, bunches	.50	to 2.00	.15	to 2.00					
Adiantum Cuneatum	.....	to ..... .50	.....	to 1.50					
" Croweatum	.....	to to 1.50	.....	to 1.50					
" Farleyense	.....	to to 1.50	.....	to 1.50					
Smilax	5.00	to 10.00	5.00	to 10.00					
Asparagus Plumosus, strings	20.00	to 35.00	20.00	to 35.00					
" bunches	10.00	to 20.00	10.00	to 20.00					
" Sprenger	5.00	to 10.00	5.00	to 10.00					

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ROSES				
Am. Beauty, fan. and sp.....	to 24.00	to 20.00	to 25.00	to 25.00
" extra.....	18.00	12.00	12.00	10.00
" No. 1.....	10.00	10.00	6.00	5.00
" Lower grades.....	4.00	5.00	3.00	2.00
Bride & 'Maid, fan and sp.....	4.00	5.00	3.00	2.00
" extra.....	to 3.00	to 4.00	to 5.00	to 4.00
" No. 1 and Lower gr.....	1.50	2.50	2.00	1.00
Liberty, fan. and sp.....	to 10.00	to 10.00	to 5.00	to 7.00
" extra.....	4.00	6.00	4.00	5.00
" No. 1.....	to 10.00	to 10.00	to 3.00	to 4.00
Carnot and Kaiserin.....	to 10.00	to 5.00	3.00	7.00
Golden Gate, Ivory, Chateaux.....	5.00	5.00	1.50	4.00
CARNATIONS				
Fancy Class.....	to 2.00	to 2.00	to 2.00	to 2.00
General Class.....	50 to 1.50	50 to 1.50	75 to 1.50	75 to 1.00
ORCHIDS				
Cattleyas.....	to 1.00	to 1.00	to 1.00	to 1.00
BULBOUS				
Lilies.....	to 6.00	to 8.00	to 12.00	to 15.00
Lily of the Valley.....	3.00	4.00	3.00	4.00
Callas.....	to 1.00	to 1.00	to 1.00	to 1.00
MISCELLANEOUS				
Mignonette.....	to 1.00	to 1.00	to 1.00	to 1.00
Sweet Peas.....	10 to 1.00	15 to 1.00	20 to 1.00	25 to 1.00
Adiantum Cuneatum.....	to 1.00	to 1.00	to 1.50	to 1.25
" Croweanum.....	to 1.00	to 1.00	to 1.50	to 1.25
" Farneum.....	to 1.00	to 1.00	to 1.50	to 1.25
Smilax.....	12.50	15.00	12.50	15.00
Asparagus Plumosus, strings.....	to 50.00	to 50.00	to 50.00	to 50.00
" bunches.....	to 15.00	to 35.00	to 35.00	to 50.00
" Sprenger.....	25.00	35.00	18.00	25.00
Asters.....	to 75 to 2.00	to 1.00	to 1.00	to 1.00

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List of Advertisers

Page	Page
Aschmann G.104	Michell H. F.106
Baker Wm. J.116	Excelsior Cut Flower119
Barndick Thos. H.117	Millang Charles119
Barrows H. H. & Son.118	Milling Frank118
Baur Floral Co.115	Moninger J. C.123
Bayersdorfer H. Co.119	Murdoch J. B.119
Boss W. J. & Co.119	Niesen Leo Co.116
Boddington A. T.101	Paack L. K.115
Bonnot Bros.117	Pennock Samuel S.116
Boston Florist Letter Co.117	Perkins John J.118
Breck Joseph & Sons106-123	Phila. Cut Flower Co.116
Breitmeier's J. Sons.118	Piereson F. R. Co.104
Budlong J. A.117	Pittsburg Cut Flower119
Burnham Hitches.124	Post Bros.105
Piereson Co.124	Poehlmann Bros. Co.104
Burpee W. A. & Co.102-106	Pye R. C.102
Chicago House Wrecking Co.122	Rawson W. W. & Co.106
Chicago Carnation Co.102	Raynor John I.118
Clucas & Hoddington105	Reed & Keller119
Cooke G. H.117	Reinberg Peter.118
Coolidge Bros.115	Robinson H. M. &119
Cottage Gardens102	Rochrs Julius104
DeNijls Bros.105	Rolker August & Son105
Deer Wm.119	Roxton Floral & Nursery Co.104
Dreer H. A.106-123	Safety Automatic Ventilating & Heating Co.123
Dysart R. J.115	Sander & Sons.104
Elliott Wm. & Son.105	Schillo Lumber Co.122
Esler J. G.123	Scollay John A.123
Ernest W. H.122	Scott John.104
Farguhar R. & J. &106	Sharp, Partridge & Co.122
Fennell J. S.118	Sheridan W. F.118
Fletcher F. W.115	Sievers J. H. & Co.102
Ford Bros.118	Stegeler E. G.122
Forest Nursery & Seed Co.115	Sidelsky S. S.102
Fromow W. & Sons105	Stofford N. C.113
Chornely W.118	Stearns A. T. Lumber Co.122
Grey T. J. & Co.106	Sutherland Geo. A.119
Gurney Heating Mfg. Co.123	Suzuki & Jida.105
Guttman Alex.119	Sylvester H. H.122
Hail Asso.122	Situations & Wants.117
Hammond J. A.119	Thorburn J. M. & Co.105-106
Herendeen Mfg. Co.122	Trasendy & Schenck119
Hews A. H. & Co.123	Vaughan and Sperry116
Hippard E.122	Vaughan's Seed Store103
Holly-Castle Co.122	Walsh M. H.115
Horan E. C.119	Ward J. M. & Co.115
Hubb E. H. Co.122	Watson, G. C.105
Hunt E. H.116	Weld F. C.102
Johnson & Stokes106	Weich Bros.116
Johnston Heating Co.123	Weiland & Rich.116
Joynt John.115	Wiegand & Co.105
Kasting W. F.119	Wietor Bros.116
King Construction Co.123	Wingard & Co.115
Klokner A.122	Winterich C.104
Lager & Hurrell104	Winterson E. F.116
Lahn Julius118	Yalaha Conservatories115
Leung & Winnfield.104	Young & Nugent117
Leuthy A. & Co.119	Young Thos. Jr.118
Metropolitan Material Co.123	Zirngiebel D.105
McCarthy N. F. & Co.119	
McConnell Alex.118	
McKellar Charles W.116	

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Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston
For page see List of Advertisers

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston
For page see List of Advertisers

Joseph Breck & Sons,
51 & 52 N. Market St., Boston
For page see List of Advertisers

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers

BAMBOO STAKES

Suzuki & Jida, 31 Barclay St., New York.
For page see List of Advertisers

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers

BEGONIA GLOIRE DE LORRAINE.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers

BULBS AND TUBERS.

R. M. Ward & Co., New York
For page see List of Advertisers

Joseph Breck & Sons, 47-54 N. Market St., Boston
French and Dutch Bulbs.
For page see List of Advertisers

Post Bros., Ettrick, Va.
Bulbs, Virginia-Grown
For page see List of Advertisers

De Nijls Bros., Hillegom-Holland.
For page see List of Advertisers

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Fiancee.
For page see List of Advertisers

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Holbart.
For page see List of Advertisers

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers

J. A. Budlong, 37 & 39 Randolph St., Chicago.
Field Grown.
For page see List of Advertisers

He Weber & Sons, Oakland, Md.
White Carnation, My Maryland.
For page see List of Advertisers

S. S. Pennock, Philadelphia.
For page see List of Advertisers

CELERY PLANTS.

Coolidge Bros., So Sudbury, Mass.
For page see List of Advertisers

CHRYSANTHEMUMS WANTED.
J. Newman & Sons, Boston.

COLD STORAGE VALLEY PIPES.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers

CYCLAMEN PLANTS.

C. Winterich, Deñance, O.
For page see List of Advertisers

Lehning & Winnfield, Hackensack, N. J.
Cyclamen Giganteum.
For page see List of Advertisers

ELECTRIC CIRCULATOR.

Holly-Castle Co., 39 Federal St., Boston.
For page see List of Advertisers

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers

FERNS.

A. Leuthy & Co., Rodolande, Mass.
For page see List of Advertisers

H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Barrows.
For page see List of Advertisers

Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers

FERTILIZERS.

W. Elliott & Sons, New York.
For page see List of Advertisers

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston
For page see List of Advertisers

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers

S. S. Pennock, Philadelphia
For page see List of Advertisers

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston
For page see List of Advertisers

G. A. Sutherland Co., 34 Hawley St., Boston
For page see List of Advertisers

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers

Young & Nugent, New York.
For page see List of Advertisers

J. Breitmeier's Sons, Miami & Gratiot Aves.,
Detroit, Mich.
For page see List of Advertisers

Thos. Young, Jr., 43 W. 28th St., New York
For page see List of Advertisers

George H. Cooke, Washington, D. C.
For page see List of Advertisers

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers

GLASS.

Sharr, Partridge & Co., 221 and Union Place, Chicago.
For page see List of Advertisers

GLAZING POINT.

H. A. Dreer Philadelphia, Pa.
For page see List of Advertisers

B. B. & E. J. Chandler, Hyde Park, Mass.

GREENHOUSE BUILDING MATERIAL.
Burnham, Hitches, Piersen Co., 1133 Broadway
New York.
For page see List of Advertisers

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers

Safety Auto V. & H. R. Co., Lake George, N. Y.
Greenhouse Ventilators.
For page see List of Advertisers

John C. Moninger Co., 111-125 Blackhawk St.
Chicago.
For page see List of Advertisers

GREENHOUSE B. MATERIAL, Continued.

Adam Schillo Lumber Co.
Weed St. and Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

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H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 & 40 Miami Ave.
Detroit, Mich.
Fancy Ferns
For page see List of Advertisers.

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M. H. Walsh, Woods Hole, Mass.

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Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
For page see List of Advertisers.

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Burnham, Hinchings, Pierson Co., 1133 Broadway
New York.
For page see List of Advertisers.

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

Herendeen Mfg. Co., Geneva, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

Johnston Heating Co., St. James Bldg., New York.
For page see List of Advertisers.

HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For summer blooming.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs.
For page see List of Advertisers.

JAPAN CANES.

W. Elliott & Sons, New York.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LILIUM HARRISH.

W. Elliott & Sons, New York.
For page see List of Advertisers.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MASTICA.

Joseph Breck & Son, Boston
For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St., New York.
Pure Culture Spawn.
For page see List of Advertisers.

NEW SPAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya Schroederi.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
For page see List of Advertisers.

P.EONIES.

Gilbert H. Wild, Sarcoxie, Mo.
For page see List of Advertisers.

PANSY SEED.

H. F. Michell Co., 1018 Market St., Philadelphia
A. T. Boddington, 342 W. 14th St., New York.

Denys Zirnigchel, Needham, Mass.
Zirnigchel Giant Pansies.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehra, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

ROSES.

Ruxton Floral & Nursery Co., Ruxton, Md.
For page see List of Advertisers.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses. H. T. Roses and Rambles.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
English-Grown Roses.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.
Young Roses.
For page see List of Advertisers.

J. A. Budlong, 37 & 39 Randolph St., Chicago.
Young Roses.
For page see List of Advertisers.

Baur Floral Co., Erie, Pa.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St. Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq.
Boston.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
For page see List of Advertisers.

W. Allee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston.
Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Johnson & Stokes, 217-19 Market St., Philadelphia.
Pansy Seeds. Kingly Collection.
For page see List of Advertisers.

G. C. Watson, 1011 Ludlow St., Philadelphia.
Sweet Pea Christmas.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany. Es-
tab. 1780. High Grade Grass, Clover, and Tree Seeds.

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham, Hinchings, Pierson Co., 1133 Broadway,
New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland & Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston

Buffalo.

For page see List of Advertisers.
Wm. F. Kastig, 383-37 Elliott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Washab Ave., Chicago.
Chas. W. McKellar, 61 Pierson St., Chicago.
Peter Reinberg, 51 Washab Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Weiland & Rich, 59 Washab Ave., Chicago.
Weier Bros., 51 Washab Ave., Chicago.
Vaughan & Sperry, 60 Washab Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Washab Ave., Chicago

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 129 E. 3d St.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Jon. S. Feuchel, 48 West 30th St., New York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghorney, 57 W. 28th St., New York.
Alex. J. Guttman, 52 West 29th St., New York.
Jas. A. Hammond, 113 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 30 West 28th St., New York.
Trenndy & Schenck, 44 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Leo Miesner Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Phila., Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 604 Liberty St., Pitts-
burg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

BERMUDA HARRISH BULBS.

Ralph M. Ward & Co., 12 W. B'way New York.
For page see List of Advertisers.

CARNATION PLANTS

A. T. Boddington, 342 W. 14th St., New York.
For page see List of Advertisers.

CYCLAMEN SEEDS

Wienelt & Co., Erfurt, Ger.
For page see List of Advertisers.

DAHLIAS

L. K. Peacock, Inc., Alto, N. J.
For page see List of Advertisers.

FOREST TREE AND SHRUB SEEDS

Forest Nursery & Seed Co., McMinnville, Tenn.
For page see List of Advertisers.

HARRISH, FREESIAS, WHITE CALLAS.

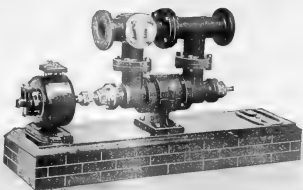
Henry F. Michell Co.,
1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.

HEADQUARTERS FOR SWEET PEAS

W. Allee Burpee & Co., Philadelphia.
For page see List of Advertisers.

The Electric Circulator

INDEPENDENT HOT WATER CIRCULATION



A simple automatic device. The circulation of heating water under perfect control as to quantity, and consequent degree of heat delivered from piping. Absolutely reliable under conditions where gravity circulation fails. Overcomes all troubles due to defective piping. Has no parts liable to get out of order. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Will save its cost in fuel in one season. Built in sizes to circulate from 1 to 1000 gallons per minute. Boiler may be placed in any desired situation. Send for descriptive circular.

We are prepared to furnish estimates for, and erect any type of Greenhouse.

HOLLY-CASTLE CO., Engineers

49 Federal Street,

BOSTON, MASS.

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ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON

Illustrators and Designers



CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.
Send your business direct to Wash. action, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE
Illustrated monthly—Eleventh year—terms, \$1. a year.

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To mend cracked Glass immediately. Box of 150 \$1.00 for sale by Jobber or address A. KLOCKNER, Wauwatosa, Wis. Testimonials and sample free.

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Mason and Builder

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Greenhouse Mason Work
a Specialty

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SASH BARS

32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

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Standard POTS
Flower...

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

28th and M Streets, WASHINGTON, D. C.

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GREENHOUSE MATERIAL

Ask for our Special Catalogue No. 104 describing Boiler Tubes, Boilers, Tubes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., CHICAGO

INSURE YOUR GLASS
in the FLORISTS' HAIL ASSOCIATION OF AMERICA.

DO IT NOW

'tis too late when you are hit. For particulars address, JOHN G. ESLEK, Saddle River, N. J.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring,
White Cedar Posts, Etc.

We are in a Special "Pecky Cypress"

Position to Furnish
Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne,

CHICAGO

Tel. North 1626 and 1627

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GLASS

FACTORIES ARE NOW CLOSED
for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing to advertisers, kindly mention HORTICULTURE

Furman Boilers for Greenhouse Heating



Valuable Catalogue on Modern Steam and Hot Water Heating, mailed free upon request. Address:

The Herendeen Manufacturing Company
Dept. H. T. Geneva, N. Y.

39 Corlandt St., NEW YORK

39 Union St., BOSTON

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FURMAN BOILERS have been awarded Certificate of Merit at Five different Florists' Conventions. They have a record of 20 years. Over 25,000 in use.

Selling Agents

EDW. S. DEAN, Bloomington, Ill.

E. K. BARR, LaCrosse, Wis.

J. S. SIPPARD, S. S. H. CO., 1014 Market St., Philadelphia.

PUMPS Rider-Ericsson. Second-hand, from \$40.00 up; all repairs.

BOILERS 1 second-hand steam, \$15.00; 1 No. 17 Hinchings, \$75.00.

PIPE New 2-in. full lengths, 8 1/2 cts. per ft. Good, serviceable second-hand, with threads 2 in., 7 cts.; 1 1/2 in., 5 1/2 cts.; 1 1/4 in., 4 1/2 cts.; 1 in., 3 cts.; 3/4 in., 10 cts.; 3/8 in., 14 cts.; 4 in., 19 cts.; cast-iron, 4 in., 12 cts.

STOCKS and DIES New No. 1 Threads, 1/2 in., 1 1/4 in., 1 1/2 in., 1 3/4 in., 2 in., pipe, \$1.00. No. 2 Threads, 1 1/2 in., 1 3/4 in., 2 in., pipe, \$4.00.

PIPE CUTTERS New, cuts 1 1/2 in. to 1 in., pipe, \$1.00; cuts 1 in. to 2 in., pipe, \$1.30.

STILLSON WRENCHES New 1 1/2 in., grips 1/2-1 1/2 in., to 2 in., pipe, \$1.00. 3/4 in., grips 1/2 in. to 3/4 in., pipe, \$4.75.

PIPE VISES New, Hinged, grips 1/2 in. to 2 in., pipe, \$2.00.

GARDEN HOSE New, 1/2 in., guaranteed 100-lb. not guaranteed, 4 1/2 cts. per ft. 1 1/2 in., pressure, 75 cts. per ft. 1 3/4 in., pressure, 75 cts. per ft.

HOTBED SASH New, Cypress, 3-ft. x 6 ft., from 70 cts. up; glazed, complete, from \$6.00 up. Second-hand, as good as new, at \$1.25 and \$1.00 each, complete.

GLASS New, American, 50 sq. ft. to the box: Single, 10 x 12, at \$1.70; old 10 x 12 single \$1.40. B. Double, 10 x 12 and 12 x 12, at \$2.40. B. Double, 12 x 14, 14 x 16, 16 x 16 at \$2.60. B. Double, 16 x 16 to 16 x 24 at \$2.95 a box.

RADIATORS Steam, as good as new.

WRITE for our price on Galf Cypress Building Material, Ventilating Apparatus, Oil, White Lead, Putty, Points, etc.

METROPOLITAN MATERIAL CO.

1398-1408 Metropolitan Av., Brooklyn, N. Y.

In writing advertisers, mention HORTICULTURE

SEND FOR

New Green House Catalogue

JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing to advertisers, mention HORTICULTURE

SEND FOR CATALOGUE OF

SCOLLY HOT WATER and STEAM BOILERS

JOHN A. SCOLLY

73 and 75 MYRTLE AVENUE
Borough of Brooklyn, N. Y. City

Holds Glass Firmly
See the Point #1

PERLESS

Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.

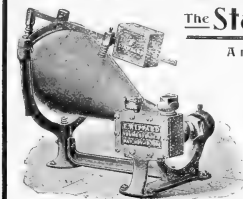
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Automatic Greenhouse Ventilators

From \$25.00 up. Send for circular

The Safety Automatic Ventilator and Heat Regulator Co., Lake George, N. Y.

The Standard Steam Trap



A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return

Testimonials if desired

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. Hippard, Youngstown, Ohio

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GREENHOUSE MATERIAL

JOHN C. MONINGER & CO. 412 to 422
HAWTHORNE AV. CHICAGO

of EVERY DESCRIPTION

In writing to advertisers, kindly mention HORTICULTURE

MASTICA

FOR Greenhouse Glazing

USE IT NOW.

Joseph Breck & Sons
CORPORATION
AGENTS

We are the Manufacturers
Distributing Agents for
Boston and Vicinity.

JOSEPH BRECK & SONS
CORPORATION
47-54 North Market Street
Boston, Mass.

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GURNEY HEATERS

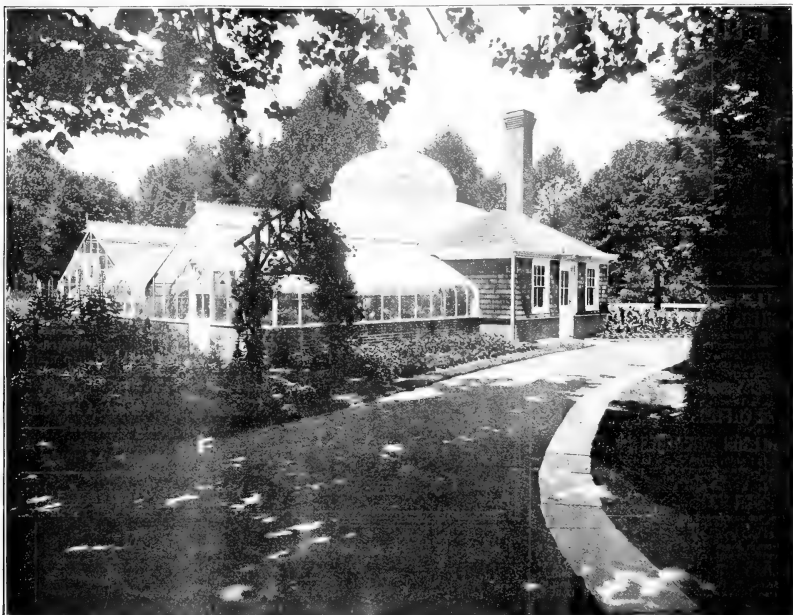
FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATING MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

HEATING APPARATUS

JOHNSTON HEATING CO., 1133 BROADWAY, St. James Building NEW YORK

Materials furnished and erected. Write for booklet on BERNHARD Boilers, the new features in this boiler will interest you.



GREENHOUSE ERECTED FOR CHARLES W. MCCUTCHEEN, PLAINFIELD, N. J.

**LORD & BURNHAM COMPANY
HITCHINGS & COMPANY and
PIERSON-SEFTON COMPANY**

Announce to their patrons and others that they have consolidated under the name of the

BURNHAM HITCHINGS PIERSON CO.

With offices in NEW YORK at 1133 BROADWAY and a Branch Office in the TREMONT BUILDING, BOSTON.

All incomplete contracts will be executed by this company and the active members of the constituent companies will continue in its management.

As is well known, these three concerns possess all the best features of greenhouse construction and its kindred branches. Consequently the new company, by combining the best patented features of the different constructions, and in view of the many economies in operating the designing, sales, advertising, purchasing, and manufacturing departments, is now able to offer work of improved character on a closer basis than when operating separately.

Manufacturing practically everything in their own works and carrying large stocks of finished and unfinished materials, they solicit your patronage and assure you that their best services are at your command.

Burnham Hitchings Pierson Co.

1133 BROADWAY, NEW YORK

HORTICULTURE

Vol. II

AUGUST 5, 1905

No. 6



ROSE LADY GAY
at Woods Hole

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

SCOTTII

Admitted by all Growers and Retailers to be the only new *Nephrolepis* that has become popular as a commercial Fern since the introduction of the Boston. Large and small growers everywhere are planting it in preference to any other *Nephrolepis*. A year's trial has demonstrated that it is the hardiest, most graceful, and symmetrical *Nephrolepis* known, unexcelled as a house plant. First choice of the retail florist and also of his customers. The New York and Philadelphia retail storemen buy no other Fern when *Scottii* is available. Last October I had on hand one and one-half acres of *Scottii*, then the supply was not equal to the demand. See my exhibit at the Washington Convention and be convinced that I am not asking novelty prices. *Scottii* has fully justified the high opinion formed of it by the judges who awarded it the following long list of Prizes.

Awards Received by *Nephrolepis Scottii*:

Philadelphia, Pa.	SILVER MEDAL	American Institute, New York	SILVER MEDAL
Newport, R. I.	SILVER MEDAL	New Orleans	GOLD MEDAL
Boston	SILVER MEDAL	St. Louis Show	GOLD MEDAL
New York Florists' Club	SILVER MEDAL	World's Fair	GOLD MEDAL
S. A. F. O. H., St. Louis	SILVER MEDAL		

Highest Award at Chicago, Ottawa and Toronto

First-Class Certificates and Testimonials from all over the country too numerous to mention

Remember I sell plants, not apologies for plants and when you order of me you can rest satisfied that your order will be filled with first-class stock.

JOHN SCOTT

Keap Street Greenhouses and E. 45th St. and Rutland Road, Brooklyn, N. Y.

In writing to advertisers, kindly mention HORTICULTURE

M. H. WALSH Rose Specialist

WOODS HOLE, MASS.

Offers Pot Plants of

LADY GAY

DEBUTANTE and WEDDING BELLS

Plants of these sensational roses in 8-in. and 9-in. pots, ready for forcing. Delivery November 1.

In writing to advertisers, kindly mention HORTICULTURE

HORTICULTURE

VOL. II

AUGUST 5, 1905

NO. 6

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE — Rose Lady Gay		THE USES OF HARDY SHRUBS FOR FORCING	
RAMBLER ROSES AT WOODS HOLE — Illustrated	131	— Edwin Matthews	135
BRITISH HORTICULTURE — W. H. Adsett	131	CUT-FLOWER MARKET REPORTS	
TRUE BEAUTIES — George Moore	133	Boston, Buffalo, Chicago, Cincinnati, Indiana-	
ROSE PRINCE DE BULGARIE — Illustrated — F.		polis, Louisville, Newport, New York, Phila-	
A. Waugh	133	delphia, San Francisco	141
EDITORIAL	134	GREENHOUSES BUILDING OR PROJECTED . . .	146
NEWS OF THE CLUBS AND SOCIETIES		MISCELLANEOUS	
Games at Boston Florists' Picnic — Illustrated . .	135	Wholesome Chestnuts	135
Society of American Florists	136	Quite Right	135
Tarrytown Horticultural Society	136	Newport Windows	135
Huntington Horticultural and Agricultural So-		News Notes	137
cietiy	146	Obituary	137
Nassau Co. (N. Y.) Horticultural Society	136	Catalogues Received	137
A Cincinnati Outing	137	San Francisco Notes	137
Washington Florist Club	137	Business Changes	137
SEED TRADE	137	Window Glass by Machinery	146
		List of Patents	146

SOCIETY OF AMERICAN FLORISTS CONVENTION NUMBER NEXT WEEK

LOCAL CORRESPONDENTS

BUFFALO, N. Y. — E. C. Brucker, 385-87 Ellicott St.
CHICAGO, ILL. — H. A. Vent, 410 E. Division St.
CINCINNATI, O. — Albert J. Gray, 129 E. 3d St.
CLEVELAND, O. — A. L. Hutchins, 38 Plymouth St.
DENVER, COLO. — N. A. Benson, 1352 So. Sherman Ave.
INDIANAPOLIS, IND. — George B. Wiegand, 1610 N. Illinois St.

LOUISVILLE, KY. — F. L. Schulz, Jr., 1325 Cherokee Road
MONTREAL — Edgar Elvin, 136 Peel St.
NEWPORT, R. I. — David McIntosh, Ledger Road
PHILADELPHIA, PA. — George C. Watson, 1614 Ludlow Street.
PROVIDENCE, R. I. — T. J. Johnston, 171 Weybosset St.
SAN FRANCISCO, CAL. — Luther Monnette, 1100 Van Ness Ave

HYDRANGEAS FOR SUMMER BLOOMING

We grow these largely, and have a magnificent stock of large-sized plants in tubs and barrels. Plants are now covered with buds and are just beginning to show color, and will be in full bloom during July and August. These plants are splendid for decoration of the lawn, and are used largely at seaside places and other summer resorts. There is nothing that equals them for summer decoration during July and August.

Fine Plants in tubs, \$2.00 and \$3.00 each—according to size.

Very large specimens in half-barrels, \$7.50 each.

These plants can be shipped by freight with perfect safety to any point. We ship large quantities every year as far north as Bar Harbor, Maine.

F. R. PIERSON CO., Tarrytown-on-Hudson, New York

In writing to advertisers, kindly mention HORTICULTURE

CARNATION PLANTS

FIELD GROWN

STRONG, HEALTHY PLANTS NOW READY

ENCHANTRESS.....	\$8.00 per 100	\$75.00 per 1000
LAWSON.....	5.00 "	45.00 "
PROSPERITY.....	5.00 "	45.00 "
ROSEVELT.....	5.00 "	45.00 "
GOLDEN BEAUTY.....	6.00 "	50.00 "
BOSTON MARKET.....	5.00 "	45.00 "
FAIR MAID.....	6.00 "	50.00 "
MRS. M. A. PATTEN.....	8.00 "	75.00 "
HARRY FENN.....	7.00 "	65.00 "
THE QUEEN.....	6.00 "	55.00 "
EL DORADO.....	5.00 "	45.00 "

ARTHUR T. BODDINGTON

342 West 14th Street, NEW YORK

In writing to advertisers, kindly mention HORTICULTURE

CARNATION PLANTS

Strong, bushy, field-grown plants, well rooted for delivery on and after August 1st, of the following tried and tested varieties:

BOSTON MARKET	BRADY	FLORIANA
QUEEN	PROSPERITY	FLAMINGO
ENCHANTRESS	INDIANAPOLIS	LAWSON
QUEEN LOUISE		VESPER

WRITE FOR PRICES

Our plants are from the grounds of the largest and most up-to-date growers.

SAMUEL S. PENNOCK

The Wholesale Florist of
PHILADELPHIA

In writing to advertisers, kindly mention HORTICULTURE

Palms, Ferns And Decorative Plants

A Fine Lot of AZALEAS in Great Variety
A Large Assortment of Ferns for Jardinieres

Also, Araucarias, Rubbers, Pandanus, Aralias
Dracaenas, Aspidistras, Marantas, Crotons
etc., etc.

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A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES

Rosindale - Boston, Mass.

In writing to advertisers, mention HORTICULTURE

STRONG 2-in. STOCK from BENCH

NEPHROLEPIS BARROWSII

\$23.00 PER 100

Scottii Ferns 10.00 per 100

See display at in HORTICULTURE May 6th.

HENRY H. BARROWS & SON

WHITMAN, MASS.

In writing to advertisers, mention HORTICULTURE

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years.

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N.Y.

In writing to advertisers, mention HORTICULTURE

CATTLEYA SCHROEDERAE

The Easter Cattleya

We take pleasure in announcing to our customers the arrival of the above superb Cattleya in perfect condition. Also Cattleya Trianae, C. labiata, C. Warneri, C. rigas, C. granulosa, Miltonia Morelana, Burlingtona fragrans, Lælia anceps and L. autumnalis atro-rubens. Write for prices.

LAGER & HURRELL

Orchid Growers and Importers SUMMIT, N. J.

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ORCHIDS, PALMS BAY TREES, Etc.

JULIUS ROEHRS CO.

RUTHERFORD, N. J.

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Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England

Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importer of Araucaria excelsa, glauca, compacta, and robusta

PALMS and AZALEAS

Write for Prices

In writing to advertisers, mention HORTICULTURE

DAHLIAS

ONE HUNDRED AND THIRTY ACRES. Roots and blooms in any quantity.

L. K. PEACOCK, Inc.

ATCO, N. J.

In writing to advertisers, mention HORTICULTURE

PEONIES

WHITE, generally called Queen Victoria has been known to keep 6 weeks in cold storage, \$9.00 per 100; \$40.00 per 1000.

FRAGRANS, the tall grower and bloom producer \$6.00 per 100; \$50.00 per 1000. For prices on other varieties including Festiva Maxima write

GILBERT H. WILD, Sarcoxie, Mo.

CELERY PLANTS

Ready July 10th, sharp. 25,000 Early Giant Pascal, A-1 Strain, finest in the country. Transplanted, \$4.50 per 1000; from the seed now in the field, \$5.00 per 1000. No better stock for private or commercial growers can be found.

COOLIDGE BROS., So. Sudbury, Mass.

Asparagus Plumosus Nana Seedlings

From flats ready for 2 1/2 in. pots \$12.00 per 1000
Asp. Sprengeri, 2 1/2 in. pots 10.00 per 1000

Asp. Plumosus Nana, large field-grown ready for benching and will give great satisfaction: 1 year old \$20.00 per 1000; 5000 at \$15.00 per 1000.

Cash with order, prepaid. **YALAH, YALAH, Yalaha Conservatories, Lake Co., Fla.**

In writing to advertisers, mention HORTICULTURE

CYCLAMEN PLANTS

Giganteum strain

Seed taken of only selected flowers and well built stock. None better.

Two transplanted, \$3.00 per 100, \$25.00 per 1000.
3-in. \$7.00 per 100, \$65.00 per 1000.

Seed of above strain new crop \$6.00 per 1000

C. WINTERICH, Defiance, Ohio

HANNAH HOBART

**The Pride of
California....**

The grand Prize Winner in competition with the latest and very best products in Carnations, East or West, for the last eight years.

Mr. John A. Palmer, of the Plum, Washington, wrote, after his visit to our nurseries in January, 1902, an article which appeared in the AMERICAN FLOWERIST of February 15 as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different; in this respect it most resembles the old Jubilee, but of course the color is different. I saw two large houses of it at Sievers', and the sight is one long to be remembered; hundreds of blooms and not a poor one in the lot, and every one the exact counterpart of the other; no bursted calyxes, but every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and if needing verification, the simple assertion that the flowers of this magnificent variety have been sold wholesale as high as \$1.50 per dozen, and none less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

The constant inquiry by every one who has seen the plants in flower is "When will the Hannah Hobart be for sale?" This led us at last to the conclusion to distribute the same next year, and we are ready to back orders from now on for delivery beginning January 1, 1906. Send your orders in early as they will be filled strictly in rotation.

PRICE, \$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO., 1251 Chestnut St., SAN FRANCISCO, CAL.

PURE CULTURE MUSHROOM SPAWN

Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 lbs. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs. Information as to Special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh importation, 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



LUCAS & BODDINGTON CO.

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Fisher's Purity (New). A grand Snowy White, giant size flowers, with long, wiry stems. A grand out flower.

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For SPECIAL PRICES on BULBS in QUANTITIES write us what you want. We are headquarters for Bulbs, and can quote you close figures.

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SWEET PEA CHRISTMAS

This new strain has proved to be very superior for florists' use. In habit it is similar to Blanche Ferry, the pink showing up brighter than in that old favorite. It is an early and continuous bloomer, coming into bloom in about ten weeks. When the bottom branches commence to flower, stems about fourteen inches long with four flowers on a spray are the rule. It is a dwarf grower, rarely reaching over five feet. Many of my customers have spoken highly of this strain, and I have pleasure in recommending it to all who grow sweet peas for market.

Pink and White, \$2.25 L.B.
Pure White, .25 2.00

GEORGE C. WATSON

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1614 Ludlow St., PHILADELPHIA

Other varieties of Sweet Peas at usual market prices.

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Seeds of Hardy Perennial Flowers

Sown in June and July will germinate and give excellent stock for transplanting in the Fall

If you want the choicest strains in Flower Seeds write us.

Catalogue mailed upon application

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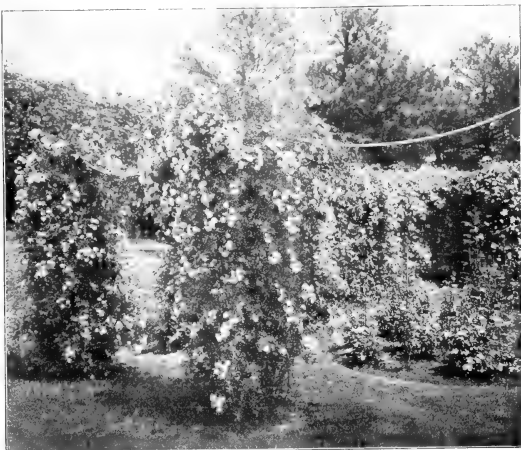
6 and 7 South Market St. BOSTON

Rambler Roses at Woods Hole

We present in this issue two pictures showing the superb decorative effect of the new rambler roses raised by M. H. Walsh, especially for pillar or arbor use. One excellent characteristic of these roses is their appropriateness in association with wild growths and natural scenery, such as the surroundings of many summer residences usually consist of. After the delightful railroad trip to Woods Hole, past clumps of wild roses and Azalea nudiflora, with glimpses of summer sea and sail and distant island, and sandy hills, and sun-burnt girls, the transition to the ordinary forms of lawn and garden adornment could never give the pleasing and harmonious impression that one gets on entering this remarkable rose garden. So perfectly do they assimilate with the native verdure that they might be scattered all along the wayside without awakening a doubt in the mind of the traveler that they were spontaneous growths.

Another good quality worth mentioning is that these roses vary so much as to their flowering that they prolong the time of roses fully a month beyond the usual period of June blooming. When the accompanying views were taken in mid-July, several varieties were through blooming and a number of others were full of buds just beginning to show color. Minnehaha is one of the latest bloomers. Debutante and Babette are especially valuable from their habit of throwing a second crop of flowers extending well into the fall. All are perfectly hardy.

Lady Gay is the variety that received so much attention and high honors at the English shows this season. It is very double and of a beautiful soft pink color fading to white as the flowers mature. Evangeline is, in Mr. Walsh's opinion, destined to be the queen of the singles. The bloom is very large, saucer-shaped, light pink, flushed and veined with deeper pink and fading to white with age. The



RAMBLER ROSES: LADY GAY, DEBUTANTE AND SWEETHEART ON ARBOR

flowers appear in big trusses and their bold effect with the enormous shining foliage, makes this variety one of great promise for park work.

Another single that is very attractive is named Paradise. It is not yet ready for distribution. The petals are wavy and shell-like, the bright yellow stamens showing up strong against the lively pink. There are a number of other seedlings, both double and single, of charming habit and effect. One, as yet unnamed, which is to be put on the market next year, bears fine double flowers of deeper pink than Lady Gay and borne on long slender trusses which, with the delicate foliage characteristic of the variety, produce a most graceful effect. No country place should be without an abundance of these gems, which, whether trained or allowed to run at liberty, are the peers of anything in decorative planting. No doubt the cut blooms of the double varieties will have a distinct market value in the future on account of their remarkably long-keeping qualities when cut.

British Horticulture

ANEMONE SPECIALISTS

At some of the recent shows of the Royal Horticultural Society a brilliant display has been made with the anemones raised at the nurseries of Messrs. Gilbert and Sons, at Dyke, in Lincolnshire. They have been showing this subject since the spring of 1903, during which time they have won seventeen

medals, and twelve awards of merit for their very fine King of Scarlets, which is regarded as one of the best doubles in cultivation. Queen of Roses is another excellent double raised by this firm, this being of a rosy carmine tint. About one hundred different varieties are cultivated at the nurseries, including the firm's noted St. Brigid strain. It is

found that the scarlet varieties are the most popular, being largely used for decorating dinner tables. One reason for their being so much in favor is that the flowers last so long after they are cut. Seeds and tubers are despatched by the firm to all parts of the world. The method of culture is to plant the tubers in August at intervals of three to six inches from the crown of each. The tubers are covered sufficiently with soil, care being taken not to have too much. The soil is usually moderately drained. As soon as the foliage dies down, the tubers are taken up and dried in boxes in an airy shed, and planted again according to the time the flowers are wanted. After planting they need no attention and no covering of any sort is required. Mr. J. T. Gilbert is an enthusiast on this branch of horticulture and he is reducing his stock of bulbs in order to go in more extensively for the cultivation of anemones in all its forms, for he believes that the flower has a great future.

A NOTED ASPARAGUS CENTER

In the fruitful vale of Evesham in Worcestershire immense quantities of asparagus are cultivated, and heavy supplies have been distributed throughout the country. Not only are all the leading markets in London and the provinces fully supplied, but several of the growers carry on a profitable trade in supplying private customers direct. There is something in the Evesham soil which is well adapted for asparagus culture. Several of the growers who have commenced in a small way have built up large and lucrative businesses. Although the fruit crops in the Evesham district have suffered severely from the adverse weather, the asparagus has done better. At the asparagus show held recently, some very fine specimens were exhibited. There was an entry of fifty bundles, each of 120 buds, and the total weight was 674 pounds, giving an average weight of 14½ pounds per bundle. The heaviest prize winner was a bundle weighing 20½ pounds. The prize bundles were sold by auction, and averaged from 14s. to 16s. each, the proceeds being devoted to the funds of the local hospital. Growers in Evesham have in the past experienced losses from the dreaded disease known as rust. They are, therefore, interested in a report which has been published on this side from the University of California, giving the result of the recent investigations made by Mr. Ralph E. Smith, the plant pathologist of the Agricultural Experiment Station. Mr. Smith has demonstrated that sulphur, either in dry or liquid form, acting largely by its gaseous fumes, is a satisfactory rust preventive.

FOSTERING THE FRUIT INDUSTRY

A Departmental Committee was appointed last year by the Board of Agriculture to consider the best means of improving the fruit industry in Britain.

After hearing the evidence of many experts and making tours of inspection, the committee have presented their report to Parliament. The chief recommendation is that a branch of the Board of Agriculture shall be established to deal with the fruit industry, with a bureau for disseminating information and a farm for experimental purposes. This country has hitherto been behind other nations in the amount of encouragement given to fruit culture, although general agriculture has had a Minister to watch its interests. If the proposal is carried out it is felt amongst horticulturists that greater progress will be made in competing against foreign growers. Another excellent suggestion in the report is that horticulture should be taught in elementary schools in country districts, and that the schools should have gardens attached wherever possible. The Committee further suggest, amongst other things, that fruit growers should pay more attention to the careful packing and proper grading of better class fruit, and the selection of the right kind of fruit to plant, according to the soil, and to the importance of cultivating fewer varieties, especially of apples.

THE GROWTH OF FRUIT CULTURE

One satisfactory feature of the report is the announcement that the fruit industry is the only form of agriculture which has exhibited any sign of progress in recent years. The committee have been much struck with the great increase in fruit-growing in the country. Whilst there have been decreases in the hop and corn crops, there has been a steady extension as regards fruit. The orchards have increased from 148,221 acres in 1873, to 243,008 acres in 1904, whilst small fruit has extended from 69,792 acres in 1897 to 77,947 acres in 1904. As to the cause of the increase, some interesting evidence was given by Sir William Thiselton Dyer, Director of the Royal Botanic Gardens at Kew. He described the extraordinary growth of the taste for fruit on the part of the public, a taste which in his opinion was not sufficiently provided for at present by fruit growers at home. Sir William considers that if home grown fruit could be distributed to the people more efficiently and more cheaply, it would be absorbed and would be profitable to the cultivator. With a view to improving the present system of distribution, the committee recommend a series of far-reaching alterations as regards railway rates and conditions, the increasing of the market facilities, etc. The report will be discussed at a joint conference to be held in the autumn under the auspices of the Royal Horticultural Society and the National Fruitgrowers' Federation.

W. H. Adsett.

True Beauties

Of course it will be considered ungallant to find fault with "American Beauties," but I must confess that if some of them were a little less aspiring they would be more to my taste. I mean the roses, not the ladies. It has become the fashion for some time to grow several varieties of roses on tall, thick stems, and so far has this been carried, as, in my mind, to make them stiff and vulgar, instead of graceful and elegant. One of the charms of the "Queen of Flowers" is its graceful, unobtrusive habit of growth, embowered in her wealth of foliage and surrounded with buds as beautiful in their expansion as the full-grown flower. Neither giants nor pigmies can be considered beautiful; proportion is an element of beauty; medium-sized objects are more agreeable to look upon than very large or very small ones, whatever they may be.

For large decorative work, these roses grown on thick, long stems with one enormous blossom at the top, may, no doubt, be very effective, but for both hand and corsage, commend me to the more slender and short stems with moderate-sized flowers, and not the "sheaves" which ladies are expected to carry on bridal or festal occasions. I suppose I shall be considered a little "off the trolley," but I think my ideas must appeal to those who look upon elegance as of more importance than obtrusive display.

Among all the new roses I do not know one which comes to my ideal of what a rose should be, like a variety I grew sixty years or more ago. This was of the hybrid China class, of which we hear but little now, but which contains varieties that would discount some of the novelties of the present day. Her name was "Coupe d' Hebe," and she was well worthy of the title, for she struck a blow at me which caused an affection for roses which I have felt

throughout a long life, but from which I hope I shall never recover.

At the time of which I write standard roses, budded upon *Rosa canina*, the English wild or dog rose (why so called I never could understand) were just coming into vogue, and one of the first I ever possessed was a Coupe d' Hebe. The tree was planted on good ground in a favorable spot, and well fed, and well it repaid the care and attention it received, for I think no rose ever secured for its owner so much admiration, or single specimens of its flowers won so many premier prizes. And now, briefly to describe it: The growth was medium, vigorous, but not too robust; the foliage was moderate in size, abundant, of a beautiful light green, refreshing to look upon; the flowers were borne upon moderately long stems, so that they appeared just above their elegant background of leaves; the buds were deep pink before expanding, were exquisite when half-blown, and the flowers were as near perfection as can be imagined; the petals shell-shaped and regularly arranged so that they were not too much crowded; the color that delicate, transparent, fleshy pink, which is best described as "rose color," and the fragrance was that of the old true garden rose, a perfume unapproached by any other. It is a pity that the old classes of hybrid China and hybrid Bourbon should be neglected for the hybrid perpetuals, for they make up in the summer for their lack of efflorescence in the autumn, and there are are not many H. P.'s after all that give many flowers then.

Geo. Moore

Rose Prince de Bulgarie

This hybrid-tea rose, which seems not to be well known in America, is one of the most beautiful of all the roses. It is of good size, excellent substance, gorgeous coloring, and is delicately fragrant. The color is a very rich but delicate salmon shade. The form is equally good in bud or in full-blown flower. I saw this rose first in England, and admired it so much that I brought over a few plants. They seem to stand our climate as well as any other varieties of the same section.

F. A. WAUGH.



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

PUBLISHED EVERY SATURDAY BY

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford, 292

WM. J. STEWART, Editor and Manager.

The Editor Has His Say

It is a very gracious concession on the part of the Florists' Club of Washington to grant the request of the Baltimore Club for the privilege of entertaining their guests on the afternoon of the closing day of the Convention. The fact that it upset previously matured local plans, makes the unselfish spirit displayed all the more noticeable. No doubt the opportunity to visit the rehabilitated city under such agreeable auspices will be eagerly seized.

"The question is not, *who is going?* but who, in the profession, *can afford to stay away.*" This quotation from the first prospectus issued for a S. A. F. Convention is as applicable to-day as it was undoubtedly pertinent then. No meeting of the Society, in the intervening twenty-one years, has been of greater importance to the welfare of the organization and of the horticultural profession than the one now close upon us. Let it be a representative one.

Our reading notes call attention to the great usefulness of Mr. Walsh's rambler roses in extending the season of blooming so that it is now possible, with judicious selection, to have an abundance of roses for a period of more than two months in latitudes where only the hardiest varieties will exist. This is a gratifying advance, and we doubt not that Mr. Walsh will yet give us these peerless garden ornaments in varieties that will keep the rose garden brilliant until the last days of autumn.

The exhibitor who contributes to the flower show "for exhibition only" does not always get due appreciation. We refer not to the one who takes this course because he doesn't wish to face the possibilities of being worsted in a competition, but to him who, out of good feeling and actuated by a spirit of generosity, does his best to promote the success of the show without any thought of recompense other than the consciousness of doing something helpful for an enterprise he believes in. We should always find some way of thanking him.

What can we do to accelerate the growth and extend the usefulness of our national society? Go to Washington? Certainly; the power of numbers is not to be despised. But if we go let us go with ideas and prepared to express them as to how this great instrumentality with its almost unlimited possibilities may be developed in the line of the largest usefulness to the largest number. Or, if impossible to go, put the ideas into shape and send them along, and, as an evidence of earnestness, send membership dues along with them — if this has not already been done.

Midsummer advertising seems to be somewhat "a thorn in the flesh" to many dealers in various horticultural lines. Some simply shut down on it; others would like to, but are reluctant to leave their competitors in possession of the field. Our conviction is that the concern that keeps everlastingly at it, through all seasons, never relaxing its efforts to hold its business constantly in the eye of the buyer, is the one that will "get there."

If you have the right goods and want to dispose of them there is no such thing possible as too much publicity. And it is a mistaken economy to shut down at any season.

Mr. F. M. Meyer, for the past year employed as a gardener at the Missouri Botanical Gardens has been sent to China to explore the flora with a view to introducing new and worthy plants. The Plant Bureau of the U. S. Department of Agriculture is conducting the work. Mr. Meyer was previously with Professor De Vries of Amsterdam, Holland, and has since travelled in Mexico and Western United States. The plant world will follow Mr. Meyer's work with special interest, and it is hoped he will be enabled to materially extend the good work of Mr. E. H. Wilson, of London, who is supposed to be the best collector Messrs. Veitch ever sent out.

• That the gardener and the florist are rapidly advancing to a higher plane in the public eye is not surprising when we stop to consider the influences under which their lives are spent. The affection for and the companionship in his plants, which are characteristic of the typical gardener, are such that even in his hours of relaxation, their contemplation affords him the highest gratification, and the mental and artistic perceptions cannot but grow in the direction of a higher civilization. The follower of horticulture is distinctly different from those in most other pursuits in that he is never weary of his avocation and even when he abandons the routine of daily labor for a period of relaxation, his interest in plant topics is never left behind.

Our British correspondent tells us some interesting facts in this issue regarding the progress of fruit culture in Great Britain. The care in packing and generally attractive form in which American fruit is presented to the customer have been commented upon frequently as contributing much toward the popularity of American fruit abroad. We shall be glad if our success in this line shall spur the English growers to emulation. The result will benefit them and will not injure us. It is undoubtedly a fact that the quantity of fruit consumed per capita is but a fraction of what it might and should be and every movement which has for its object improved facilities for supplying good fruit in abundance to all classes of people should be enthusiastically supported.

Games at Boston Florist's Picnic



Norton Vaughan Gray Miller
OLD MEN'S RACE



Low Cannell Collins Wheeler
FINAL IN 100 YD. DASH FOR SILVER CUP



BOY'S RACE



GIRL'S RACE



SACK RACE

WHOLESOME CHESTNUTS

Sow pansy seed now if you want really good pansies next season. Also sow all kinds of perennial seeds.

It is time roses for winter blooming were planted. Give them all the air you can. They ought to have been planted with the soil made firm around the roots, but to keep the soil sweet it ought to be frequently stirred.

Grapes that are ripe ought to have a little air at night; nothing hastens decay in ripe grapes so much as a musty, overheated atmosphere.

Keep the breastwood cut off peaches and nectarines, both indoors and out. The fruit needs light and next year's fruiting wood, needs sap.

On wet days clean the greenhouses and clean the pots and pans, to have them in shape for bye and bye. Keep carnations planted out doors free of weeds, and get

benches and houses ready for them. Count to see if you have enough; if you don't have enough, order what you need from some one who advertises in HORTICULTURE.

QUITE RIGHT

Some of the monthly magazines have gone raving mad on various kinds of horticultural fol-de-rol. For the most part, this takes the form of violent spasms about plant breeding. The characteristic symptom of this disease is to laud, glorify, and make a fool of Luther Burbank, who has never done anything to deserve such treatment. These articles are a rank imposition on the public, and the pity of it is that the public does not know it. - Country Gentleman.

A good rooter is useful on the grand stand; also on the propagating bench.

NEWPORT WINDOWS

The florists of Bellevue avenue are giving unusual attention to the arrangement of the flowers displayed in their windows this season. It may be because of unusual competition, but, whatever the motive, the improvement is marked. Where flowers are arranged with good taste there, invariably, purchasers will linger, while on the other hand, purchasers are suspicious of places where no evidence of taste exists in either the selection or arrangement of the flowers in the show windows. In one store window last week I noticed a beautiful display, and what seemed more than anything else that an artist had a hand in the work, was that the most common flower in the window was utilized in such a way that the effect it produced was just as pronounced as that of the vastly more expensive ones alongside of it. The flower I have reference to was yellow antirrhinum; they were good, no mistake about that, but the orchids were good, too.

NEWS OF THE CLUBS AND SOCIETIES

SOCIETY OF AMERICAN FLORISTS
AND ORNAMENTAL HORTICULTURISTS

To the Commercial Florists of North America, and to all others who are interested in Floriculture as any part of their life work:—

The twenty-first annual convention of this Society will be held in Washington, D. C., August 15th.

This Society for the past twenty years has been a representative one. It has been the foremost national one in Horticulture. It has accomplished much on broad, general lines. It has helped needed and favorable legislation. It has everywhere reduced the cost of transporting plants. It has disseminated much knowledge of cultural methods. It has checked misrepresentations of unscrupulous dealers. It has inspired most of those exhibitions which have attracted public attention to ornamental horticulture.

Having been present at all of the meetings of this society, and having taken some part in them, I may claim a measure of loyalty to its work, though if further evidence be needed the fact that its chief office lies in me this year is sufficient reason why I should speak plainly for its welfare.

Let us look at its membership record. Fifteen years ago, in 1889 and 1890 we averaged eleven hundred members, while in 1899, ten years later, we had less than six hundred paid members. Last year after our World's Fair Convention in St. Louis we totaled only eight hundred and eighty-nine, or nearly twenty percent less than fourteen years ago.

But the increase in the number of persons engaged in ornamental horticulture during the past five years only has been twenty-five percent, and during fifteen years probably over fifty percent. This shows that our Society has fallen short from forty to seventy-five percent of its rightful increase, and has gained nothing from the recent enormous growth in floriculture and general horticulture.

It is conceded that the increased public interest in our chosen work during the year just past is unprecedented. Some say that one third more people are taking an interest in gardening to-day than ever before. This is true of both rich and poor. Add to this the Civic Improvement work and School Garden movement.

I appeal both to those who appreciate what this Society has done and to those (if there be such) who believe we are not meeting present opportunities, to be present with us at this Convention.

Am I justified in claiming that the Society of American Florists needs your presence at Washington, August 15th, to decide how we may wisely meet these wonderfully enlarged demands on our profession; how we may appeal directly to all these growing interests; how we may increase as a Society in proportion to Horticultural increase; how we may continue to be nationally what we have been; how we all may, commercially and for public good, take advantage of this flood-tide of horticultural awakening which is upon us?

Your part is to come to the Convention. Your membership fee is nothing, your presence is everything.

The visit will be a recreation and a benefit. The result will be an inspiration to others and a duty performed.

Come and bring a friend.

J. C. VAUGHAN, President.

The Washington Florist Club, being especially desirous that all Convention

visitors are introduced and made acquainted with each other, has appointed from its reception committee a special committee on introduction, consisting of the following: Geo. C. Schafer, Chairman, 14th and I streets; Chas. Henlock, 1013 E street; Franklin A. Whelan, Mt. Vernon, Virginia.

Traveling representatives of the S. A. F., appointed last winter, will kindly report at the Convention Hall, Reception Committee Room, on arrival in Washington, and are asked to be present and work with the above committee all of the first day and evening of the Convention, to promote general acquaintance.

J. C. VAUGHAN, President.
WM. J. STEWART, Secretary.

The following is the list of traveling representatives appointed by President J. C. Vaughan:

- J. R. Eotheringham, Tarrytown, N. Y.
- Paul Berkowitz, 50-50 N. 4th St., Philadelphia, Pa.
- S. S. Skidelsky, 824 N. 24th St., Philadelphia, Pa.
- B. Eschner, 916 Filbert St., Philadelphia, Pa.
- E. McRorie, S. Orange, N. J.
- D. J. Fancourt, 1512-13 Ludlow St., Philadelphia, Pa.
- A. Ringier, Woodlawn Point, Chicago, Ill.
- C. S. Ford, 1417 Columbia Ave., Philadelphia, Pa.
- C. W. Scott, 84 Randolph St., Chicago, Ill.

WM. J. STEWART, Secretary.

NEW YORK TO WASHINGTON

The special party for the Washington convention will leave New York over the Pennsylvania R.R., at 10.55 A.M., Monday, August 14. Full particulars may be obtained by addressing John Young, 51 W. 28th street, New York city.

BOSTON TO WASHINGTON

It has been arranged that parties wishing to go in company to the Washington convention from Boston and eastern New England points, may take the Providence boat line on Sunday, P.M., August 13, arriving in New York in time to join the party from that city which leaves at 10.55 A.M., Monday, over the Pennsylvania R.R. The Providence line train connecting with boat leaves Boston at 6.22 P.M. In purchasing ticket be sure to have it read over the Pennsylvania R.R., and ask for a certificate for the Society of American Florists' Convention. These tickets may be purchased not earlier than Friday, August 11. Parties desiring staterooms on the boat may have them reserved for them by sending application therefor to W. H. Elliott, Brighton, Mass., or Wm. J. Stewart, 11 Hamilton Place, Boston. Price of stateroom is \$7.00 or \$2.00, according to location.

From western points in New England States the most direct route will be by rail, via Hartford and New Haven. Those desiring to travel in company should write to Theodore Wirth, or John Combs, Hartford, Conn., who will give particulars regarding party to be made up at that city.

WM. J. STEWART, Secretary.

CONNECTICUT TO WASHINGTON

The Connecticut Delegation to the Washington Convention will take the train which leaves Springfield, Mass., 6.20; Hartford, 7.12; New Haven, 7.58; Stamford, 8.50; Monday evening, the 14th, and will proceed on the midnight train of the Pennsylvania R.R., leaving DeShusses Street 12.10 and arriving in Washington 7.20 Tuesday morning. All

those that wish to join and wish berth secured should at once write to the undersigned. Each delegate has to secure his own ticket which can be had on the certificate plan for one and one-third fare for the round trip.

THEODORE WIRTH.
HARTFORD, CONN.

Department of Plant Registration

Richard F. Gloede, Evanston, Ill., submits for registration zonal geranium Kenilworth; growth and habit, tall and robust; flowers single, dark scarlet; foliage, large and leathery; seedling, three years old.

Also zonal geranium Illinois, sport from Beauty of Poitevine, semi-double, identical with the parent in every particular with the exception of the petals which are irregularly toothed and somewhat larger than in Poitevine, and the blossoms are more widely open.

WM. J. STEWART, Secretary.

TARRYTOWN HORTICULTURAL SOCIETY

The regular monthly meeting of this society was held on Tuesday evening, July 25th. Three new members were elected and three names proposed for membership. The monthly prize given by Secretary Newbrand brought out a good competition. The winning collection came from Greystone, Samuel Untermeyer's place at Yonkers, N. Y., John Featherstone, gardener, and contained over a hundred species and varieties.

An interesting discussion developed on the culture and diseases of the hollyhock. Regarding the time of sowing, the consensus of opinion was that the first week in August was the best. It was conceded that atmospheric conditions and situation had a good deal to do with the disease.

The committee on the annual outing reported that arrangements had been made for the dinner at Beck's Rye Beach hotel on August 16th, at two o'clock, and that a program for races, bowling, etc., had been arranged to take place in the hotel grounds. The sports to begin at 12. noon.

WM. SCOTT, Secretary.

HUNTINGTON HORTICULTURAL AND AGRICULTURAL SOCIETY

The Huntington Horticultural and Agricultural Society has decided to offer money premiums at its next fall exhibition. The prizes will be liberal and indications point to the largest and most successful exhibition yet given by the society.

Offers of special prizes should be sent to Walter Shaw, chairman of exhibition committee, Huntington, N. Y.

The prize schedule will be ready for delivery within a short time.

The officers of the society are:

President, H. T. Funnell; Vice-President, Wm. O'Hara; Secretary, A. H. Funnell; Treasurer, Douglass Conklin.

NASSAU CO. (N. Y.) HORTICULTURAL SOCIETY

The July monthly meeting of this society was held at the Glen Cove greenhouses. The attendance of members was large, in fact the largest in the history of this young society. President Harrison occupied the chair. The exhibition table was decorated with a vase of Centaurea imperialis, a collection of Japanese iris, and Elaeagnus longipes in fruit, also a dish of potato Firstling, a very early potato of good size and shape, and clusters of Sterling Castle tomato, a variety of perfect shape and color

and a free setter. The chief business of the evening was the launching of a schedule for a flower show to be held in Glen Cove in the beginning of November.

JOHN F. JOHNSTON.

A CINCINNATI OUTING

A very enjoyable day was had at the Florists' Outing at Coney Island on Thursday, July 20th. There were plenty of sporting events, to occupy the time of men, women, and children through the day, consisting of bowling, foot-racing, and quait pitching. The event of the day was the base-ball game between two florist teams, namely, the Knockers and the Boosters, the former carrying off the honors.

FLORISTS' CLUB OF WASHINGTON

A well-attended meeting of the Club was held at Gude Bros.' store on Tuesday evening at which all convention committees were represented and many matters of final detail were settled. A delegation from the Baltimore club came over with an official request that they have the privilege of a few hours of the convention visitors' time on the last day of the convention, for the purpose of showing them their city, and extending fraternal hospitality to them and to the Washington florists. So urgently and eloquently did the delegation voice their request, that after full discussion it was granted, although with great reluctance, as arrangements had been completed to fully occupy the day with an interesting program in Washington. So, after the exhibition drill by the U.S. Engineer Corps which takes place on the ellipse of the White House grounds at nine o'clock sharp, on the morning of Friday, August 18, the official program of entertainment will close and trains will be taken for Baltimore about one o'clock.

NEWS NOTES

Frank T. White of Holbrook, Mass., has completed a fifty-foot extension to a block of three houses and planted the same to chrysanthemums.

Mr. Ernest Wilde, gardener to Mr. A. A. Thorndike, Braintree, Mass., has resigned his position and gone to England. Mr. Andrew Castle has been appointed as his successor through R. & J. Farquhar & Co., by whom he was formerly employed. Two new greenhouses have been added to the plant at this estate the present season.

William G. Patterson of Wollaston, Mass., has the foundation of an 18x65 house nearly finished. He will grow violets in this house the coming season. Mr. Patterson's sweet peas, although growing upon a side hill with a southerly aspect, survived the extreme heat in a remarkable manner and give promise of throwing considerable more bloom. His asters also look very promising.

A practical joker, on mischief or malice intent, tacked on John Orth's greenhouses, at Versailles, Pa., during his absence, notices bearing these words:

"Take everything, go as far as you like, but leave the telephone."

The advice was taken literally and the townspeople cleaned things up in short order. When the truth came out many returned the plants taken. Detectives are looking for the joker.

VACATIONISTS GOING

Sidney Clack of Menlo Park, Cal., will make a tour along the northern coast of that state, and will probably include a visit to the Lewis and Clark Fair.

SEED TRADE

Reference has been made in these columns to a probable shortage in the seed pea crop of 1905. The first mention was early in June, but most growers failed to see the writing on the wall, and have continued backing orders at the contracting prices of last winter and spring. They have been living in a fool's paradise, but within the past two weeks a change has come over the spirit of their dreams, and they have suddenly awakened to find themselves facing a very heavy shortage. Instead of an average of five fold, one of the largest and best informed growers in this country or Canada now estimates the crop at from two and a half to three fold. As the grower keeps back one fold for seed, it is plain that in many varieties we shall not have over fifty per cent to deliver on orders.

It is yet too early to get a line on the crop of seed beans, but weather for the most part has been favorable for the past few weeks. However there is many a slip, and one can never bank on a bean crop until it is actually housed. Corn has made very gratifying growth during the present month, but the crop is far from "secure."

Onion seed has turned out about as expected - a light crop and poor quality. The germination will no doubt prove unsatisfactory.

It may not be generally known that American grown Bermuda onion seed does not give satisfactory results when planted in this country, but such is the fact. Seed grown in the West Indies, especially from Bermuda or Tenerife, gives best results.

Troubles are accumulating about the Hon. James Wilson, Secretary of Agriculture. "Uncle Jimmie's" Department seems to be as badly honeycombed with graft as was the Post Office Department. The Statistical Department is known to have been corrupt, but now the Bureau of Botany is under suspicion, and the efficient head of that Bureau is accused. This is getting close to Uncle Sam's seed shop, as the seed distribution is under the immediate charge of the chief of the Bureau of Botany. There are certain very suspicious circumstances connected with some of the distributions of a few years back which have never been cleared up.

It is well known that some of these distributions were scandalously juggled, but there seems to have been a willingness to cast the mantle of forgetfulness over them. It is to be hoped that Congress may decide to "turn on the light."

CATALOGUES RECEIVED

H. A. Terry, Crescent, Ia. Price list of choice seedling paeonies.

Kramer Bros. Foundry Co., Dayton, O. Catalogue of iron vases, settees, and chairs. Contains illustrations of some very artistic models.

Frantz De Laet, Contich les Anvers, Belgium. General catalogue of succulents. A very comprehensive list illustrated with plates of rare cacti.

H. F. Mitchell Co., Philadelphia, have sent out their July and August wholesale price list of bulbs, etc. It starts off with a timely illustration of a "well-matured Lilium Harrisii bulb."

OBITUARY

A. G. Guttie, former president of the Wisconsin State Horticultural Society, died July 25, at Barraboo, Wis., aged 91 years.

C. L. Howe who formerly conducted the greenhouses now run by his son-in-law, W. L. Lewis, at Marlboro, Mass., died on July 28, aged 67 years.

SAN FRANCISCO NOTES

The rumor that the long established Shanahan Floral Company had changed hands, is authoritatively pronounced false. John W. Shanahan holds all but a minimum interest in this well-patronized cut-flower and plant store, but he has resigned its management in favor of his wife, and changed his place of residence from here to Sacramento, where he has engaged in other business.

From the great Livermore Valley on the east side of the bay it is just now becoming known that the extensive early apricot and sugar-beet crop of the valley was greatly damaged by the torrid weather of the first week in July; that large quantities of apricots were turned brown by the skin being rendered tough, and the inside so damaged that the fruit was made unfit for canning; also that many of the sugar-beets which were just beginning to sprout from the ground, some of them being two inches high, were literally burned up, and the intervening time has proved that there was not enough moisture in the ground for the recovery of the plants.

In paying honor to the memory of the dean of California horticulturists, whose recent sudden passing from this life was published in HORTICULTURE at the time, the Menlo Park Horticultural Society voted at last week's meeting as follows:

Whereas, It has pleased Almighty God to remove from our midst our late brother, Michael Lynch, therefore be it

Resolved, That we, the members of this society, unite in expressing our heartfelt sorrow and sympathy at the death of our late brother.

Resolved, That we extend to the bereaved wife and family of the deceased, our condolence in the loss of a devoted husband and father and pray that God will extend to them His loving and tender care in this, their hour of affliction.

And be it further resolved, That these resolutions be printed in full upon the records of this society and a copy sent to the family of the deceased.

BUSINESS CHANGES

O. J. Sawyer succeeds George W. Fetzer, at Allentown, Pa.

Pilcher & Burrows are a new firm located at 717 N. Fourth Street, St. Louis. Their business will be florists' supplies.

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Notice of Annual Meeting

The Annual Meeting of the Florists' Hall Association of America will be held in S.A.P. O H. Convention Hall, Washington, D. C. on Thursday Afternoon, Aug. 17th, 1905, at 2 P.M.

JOHN G. ESLER, Secretary

H. BAYERSDORFER & CO.

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THE USES OF HARDY SHRUBS FOR FORCING

Edwin Matthews, before the Florists' Club of Philadelphia, June 20th, 1905.
(Continued from page 40)

The large list of shrubs adaptable for forcing must, of course, be greatly minimized for the florists, as many of them, though beautiful and useful in some capacities, would not bring the best returns for the labor bestowed on them. Azaleas, both the mollis and those known as the Ghent azaleas, are one of the most useful classes of shrubs that we have and quite as valuable for hard forcing as for flowering later. Although the formation of the roots is dense and wiglike, they are, as already stated, all the better for being potted early; especially is this so if they are wanted for early forcing. Among the most beautiful in the mollis section are *Alphonse Lavalle*, bright orange; *Anthony Koster*, deep yellow; *Hugo Koster*, salmon red, and *J. J. de Bink*, soft rose. The seed-pods should be removed directly after flowering, as these are a drain on the plants' strength.

Rhododendrons are among the most gorgeous of shrubs, and owing to the root formation are most suitable for being flowered in pots or tubs. Going by the stock imported from Europe, they flower when quite small, plants not more than one and one-half feet high bearing a half-dozen large trusses of flowers, while the wide range of coloring in the rhododendron family affords opportunity for getting almost any shade desired. Hard forcing for the rhododendron must be avoided, while liberal supplies of water overhead is essential when it is remembered that moist conditions are their natural requirements.

Among the prunuses that are worthy of individual note are *Prunus triloba* flora-plena and *Prunus pseudo-cerasus*. The former is certainly one of the most handsome of the plum-section, and much more distinct than its near ally, *Prunus amygdalus* nanus; its large double flowers are produced so profusely that hardly a leaf is discernible. It should only be pruned immediately after flowering, the growth resulting from this being allowed to develop, as this is the wood that will produce flower the following season. The latter, *Prunus pseudo-cerasus*, is a glorious cherry, indeed one of the most beautiful introductions we have had from Japan, the land of flowers. The varieties *Anthony Waterer* and *J. H. Veitch* are the best, and flower very freely when quite a small size, which is an important point. The lilac is unquestionably one of the most popular of shrubs for forcing and may be had in bloom early in January, its fragrant blossoms being welcome from then until they appear naturally and are sold on the street for 10 cents a bunch.

The spiræas are an extensive family and a selection from them for the florist is easily made; the most popular, I think, is *S. confusa*, *S. arguta* *S. Van Houttei*, and *S.*

prunifolia fl. pl., all bearing graceful racemes of white flowers admirably suited for wreath or bouquet work. Another shrub which I think the florist could make use of is *Forssythia suspensa*. It blooms early in the year anyhow and subjected to a little heat could be had much earlier; when in the form of a standard it makes a striking picture with its lateral shoots hanging around the main stem and forming quite a fountain of yellow flowers. The *kerrias* in both the single and double form are well worth including, as they take up so little room; while a plant which makes a suitable companion for the above, and which could be well called the white *kerria*, is *Rhodotypos kerrioides*.

There are two species of *chionanthus* that are highly commendable for gentle forcing, viz., the North American species, *virginica*, and the Japanese representative, *retusus*. The fringe trees, as they are called, are very charming when in pots. The American species is, I think, the better of the two. The presence of the following two hardy heaths in winter would attract attention, especially among the Scotch fraternity, and though they will hardly compete with the Cape heaths, *Erica carnea* and *Erica midwinterana*, make pretty subjects for pot work. When lifted from the open ground, they should be potted very firm and well watered, placing them in a cool temperature, as they require little forcing to get them to flower in February and March.

Among the things that are best grown permanently in pots, the following would prove useful in March and April, viz., *Magnolia stellata* and *purpurea*, and *Loropetalum chinense*, a plant bearing resemblance to the fringe tree, but belonging to the *Hamelis* family. Nice, medium-sized plants of these, brought gradually by gentle heat into bloom, would surely make attractive features, while some of the tree pæonies, *P. Moutan* and the many varieties that have appeared in recent years, would readily secure admirers and buyers. Some of the little Japanese maples brought along in a little heat would be of great ornamental value, their beautiful and graceful foliage being with some of the best of stove plants. The red cut-leaf maple, *Acer polymorphum* dis-

sectum *atropurpureum* and *dissectum* green, are truly a worthy pair.

In conclusion would like to comment on the worthy use of hardy shrubs for public conservatories. Here, at least, there need be no restrictions as to what will pay, but what will give the greatest delight to the public taste. During my stay at the Botanic Gardens, Kew, I had the opportunity of seeing what could be done in this direction, and I can here say that the display made by the many forced things in the shrub line drew the masses from the metropolis in no uncertain way, and year by year it was looked forward to with expectation. The same thing might be said of this city's public conservatories, but to speak frankly, in order for the public to fully realize what can be done in this respect, the ratio of excellence will need to be raised higher in every sense, for although it may be a color scheme to harmony, even the uninitiated tire of seeing dirty green pots and plants that do not do justice to the species. If horticulture is anything, it is a moral educator, and if the public are to gain any higher, purer motives from this source, let there be seen the fundamental principle, cleanliness, for it is often quoted, this is next to godliness. What an inducement it would be to the public to invest a nickel on a carfare to pay frequent visits to the city's conservatory while winter has still firm hold on the outside world, if groups of the aforesaid plants were on view.

Of late years the various forms of clematis, especially the Jackmanni hybrids, have been grown largely under glass for early flowering, not only in the shape of large specimens but plants in only 5-inch pots and bearing several large, showy flowers. A group of these in March and April would certainly speak for themselves, while magnolias and tree pæonies, pyracas and prunuses, rhododendrons, and wisterias would form scenes of loveliness, which would call forth admiration and praise from all and would do much to raise horticulture in the eyes of the masses and infuse a sense of gratitude for the many charming creations the floral world dispenses in the hand of the horticulturist whose position is to work with and aid nature, and "the art itself is nature."

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" Extra	4.00 to 5.00	to 4.00	4.00 to 5.00	2.00 to 3.00
" No. 1 and Lower gr.	1.00 to 3.00	2.00 to 3.00	1.00 to 4.00	50 to 2.00
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Smilax	10.00 to 12.00	to 12.50	12.50 to 15.00	12.00 to 16.00
Asparagus Plumosus; strings	20.00 to 30.00	to 25.00	25.00 to 50.00	35.00 to 50.00
" bunches	15.00 to 35.00	to 25.00	25.00 to 50.00	35.00 to 50.00
" Sprengeri	15.00 to 25.00	to 25.00	25.00 to 50.00	25.00 to 50.00

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CUT-FLOWER MARKET REPORTS

BOSTON The shortening up of receipts has helped the flower market materially. There is no heavy business on and no more stock is needed than is in evidence. A little enquiry for Beauty roses is noted. Carnations run very small in size and but few good ones are seen. Asters are beginning to accumulate and prices are scaling down. The early crop of these is very much better than in any previous year.

BUFFALO During the past two weeks a fair amount of business has been done and the increased demand helped to stiffen up prices somewhat. Lilies, carnations, and out-door flowers moved satisfactorily, and the glut on roses seems to be about over. Asters have found an excellent reception at good prices. Smilax and other green stock are in over-supply.

CHICAGO Conditions have changed but slightly during the past week.

Roses are coming in more briskly, especially the young stock. American Beauties are more plentiful and in good demand. Richmond Gem is appearing in light quantities. Most of the growers have thrown out their old stock of carnations and are now replanting their benches, consequently, the majority of carnations in market are field-grown. But these, as well as asters, and all other out-door plants, show the effect of the heavy rains that have been abundant of late. Lilies, both auratum and Harrisii, are to be had in moderate quantity, the latter being especially fine. Sweet peas are nearing the end, the best bringing fifty cents per hundred.

CINCINNATI Scarcity of flowers and orders are the characteristic of the market at present. Good carnations and roses are not impossible to obtain, but there are very few of them. Gladioli and asters are the most satisfactory items in the list.

INDIANAPOLIS There is little demand for the abundant stock with which the market is supplied and the buyer can make his own price. Asters brought from \$3. to \$5. per thousand. A few good roses are in evidence; also gladioli and tuberoses stalks; green goods of all kinds are plentiful.

LOUISVILLE Business conditions last week were very favorable. Carnations are no longer demanded to any great extent. Roses sell well, are of good quality, and there is an abundant supply. Asters have been welcomed. They can be had in satisfactory quantities, the quality being up to expectations, and the demand very good. The weather has been very warm.

NEWPORT The florists of Newport are working these days. The season is on in full blast—balls and dinners nearly every night. One last week given by Mrs. Fish had some startling innovations in the decorations. Hodgson had the work and it was well done. Affairs like this gladden the hearts of the florists. The erection of improvised ball rooms by many hostesses in Newport necessitates the

use of large numbers of plants in executing their schemes of decoration; but it is when garlands of roses are strung to the roof and side walls are hidden with flowers that the decorator smiles the broadest and works the hardest. The season may be short but it is certainly a hummer while it lasts.

NEW YORK The cut from young roses is making an impression on prices on an already limited and weak market. With the advent of August, less may be expected of its power to use up the amount of stock which we are likely to have. Asters are sufficiently plentiful to affect the sale of roses. There are few carnations, but more than usual for the season. The volume of business is small at best.

PHILA-DELPHIA There is but little of a special nature to report in regard to the market the past week.

A few more growers have been sending in new crop Beauties, and Liberties still remain of fair quality considering the season. Kaisers are also good, but Brides and Bridesmaids are only medium. The carnation market is dull and featureless with stock at a low ebb as to quality, and the demand corresponding. Lily of the valley has been plentiful and of good quality; demand for same good. Asters are now a strong feature of the market, the Victoria type in pink, blue, and white taking the lead. Dahlias are earlier than usual this year and are improving in quality as the more desirable varieties become available. Sweet peas, water lilies, gladioli, and various other summer subjects are plentiful and bring fair returns. The market as a whole is in the doldrums, but a good trade wind will here very soon now to move things along.

SAN FRANCISCO The smart trade activity prevailing this mid-summer season is a matter of general comment. All agree that there has been no July dropping off in business this year. The three or four days of blistering temperature during the first week of the month were immediately followed by perfect weather, the good effects of which are displayed in the improved quality of the flowers being marketed, and for the critical demand, there is an abundance of good flowers showing none of the effects of the heated term. The better class of American Beauties are in good demand. Gladioli and asters are coming in freely. The double sunflower seems to have caught the popular fancy as never before and they are used for show window and vestibule decoration, flowers on six to seven-foot stalks preferred. It is reported that the King of Italy has applied to Luther Burbank for information regarding the blooming cactus that has no thorns.

A. Leuthy of Rosindale, Mass., arrived at Dover, England, on S.S. Finland, July 17.

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“ extra	8.00 to 12.00	8.00 to 12.00			
“ No. 1	3.00 to 5.00	5.00 to 8.00			
“ Lower grades	1.00 to 2.00	1.00 to 3.00			
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“ extra	4.00 to 6.00	3.00 to 5.00			
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List of Advertisers

Page	Page
Aschmann G.128	McConnell Alex.142
Baker Wm. J.140	McKellar Charles W.140
Bambrick Thos. H. ....141	Mo Manus Jas. ....142
Barrows H.B. & Son. ....126	Michigan Cut Flower Exchange ....143
Baur Floral Co. ....129	Millang Charles ....143
Bayersdorfer H. & Co. ....128-143	Millang Frank ....142
Boas W. J. & Co. ....143	Mitting A. ....139
Boddington A. T. ....128	Moninger J. C. ....147
Bonnet Bros. ....143	Murdoch J. B. ....143
Boston Belting Co. ....147	Niessen Leo Co. ....140
Boston Florist Letter Co. ....137	Peacock L. K. ....128
Breck Joseph & Sons 130	Pennock Samuel S. ....128-140
Breitmeier J. J. Sons. ....142	Perkins John J. ....143
Budlong J. A. ....141	Phila. Cut Flower Co. ....140
Burnham Hitchings Pierison Co. ....148	Pierison F. R. Co. ....126
Burpee W. A. & Co. ....130	Pittsburg C. Co. ....143
California Nursery Co. ....139	Post Bros. ....139
Chicago House Wreck- ing Co. ....147	Posthorn Bros. Co. ....139
Chicago Carnation Co. ....129	Pye R. C. ....129
Chucas & Boddington. ....128	Rawson W. W. & Co. ....130
Cooke G. H. ....141	Raynor John I. ....142
Coolidge Bros. ....128	Reed & Keller ....143
Cottage Gardens. ....129	Reinberg Peter. ....140
DeNijis Bros. ....139	Robinson H. M. & Co. ....143
Dilger Wm. ....143	Rocher Julius ....128
Dreer H. A. ....139-147	Rolker August & Son 129
Dyars R. J. ....147	Sahr Curt ....147
Elliott Wm. & Son ....129	Sander & Sons. ....142
Eder J. G. ....147	Schille Lumber Co. ....148
Ernest W. H. ....147	Scollay John A. ....127
Farquhar R. & J. & Co. ....130	Scott John. ....126-128
Fenrich J. S. ....142	Sharp Partridge & Co. ....148
Fletcher F. W. ....139	Sheridan W. F. ....142
Ford Bros. ....142	Sievers J. H. & Co. ....129
Forest Nursery & Seed Co. ....139	Siggers E. G. ....147
Fronow W. & Sons. ....129	Situations & Wants. ....141
Ghormley W. ....142	Skidley S. S. ....137
Grey T. J. & Co. ....130	Staford N. C. ....148
Guany Heating Mfg. Co. ....147	Stearns A. T. Lumber Co. ....143
Guttman Alex. J. ....143	Sutherland Geo. A. ....143
Hail Aso. ....137	Suzuki & Iida. ....129
Hammond J. A. ....143	Sylvester H. H. ....147
Hews A. H. & Co. ....147	Thorburn J. M. & Co. ....130-139
Hill E. C. Co. ....129	Toto Chas. H. ....130-139
Holly-Castle Co. ....143	Tresendy & Schenck 143
Horan E. C. ....148	Vaughan and Sperry. ....140
Hunt E. H. ....140	Vaughan's Seed Store 139
Johnston Heating Co 147	Walsh M. H. ....126
Joynt John ....129	Ward Ralph M. Co. ....130
Kasting W. F. ....143	Watson C. C. ....130
King Construction Co. 147	Weber F. C. ....141
Klicker A. ....147	Weber H. & Sons. ....129
Lager & Hurrell ....128	Welch Bros. ....140
Lang Julius ....143	Weland & Risch ....140
Leuthy A. & Co. ....128	Weigelt & Co. ....130
Metropolitan Material Co. ....147	Wietor Bros. ....140
McCarthy N. F. & Co. ....143	Wild S. H. ....128
	Winterich C. F. ....128
	Winterson E. F. ....140
	Yalaha Conservatories 128
	Young & Nugent141
	Young Thos. Jr.142
	Zirgibiel D.139
	Zw-lanek Ant Co.139

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Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dyars, 28 State St., Boston
For page see List of Advertisers

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston
For page see List of Advertisers.

Joseph Breck & Sons,
51 & 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BEGONIA GLOIRE DE LORRAINE.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York
For page see List of Advertisers
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

Post Bros., Ettrick, Va.
Bulbs, Virginia-Grown
For page see List of Advertisers.

De Nijis Bros., Hillegom-Holland.
For page see List of Advertisers.

Henry F. Michell Co.
1018 Market St., Philadelphia, Pa.
Harris, Pressias, White Callas.
For page see List of Advertisers.

CANADA HARDWOOD ASHES.

John Joyce, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Fiancee.
For page see List of Advertisers.
John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Holart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers

H. Weber & Sons, Oakland, Md.
White Carnation, My Maryland.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., New York.
Carnation Plants.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

CELERY PLANTS.

Coolidge Bros., So Sudbury, Mass.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Defiance, O.
For page see List of Advertisers.

Lehning & Winnefeld, Hackensack, N. J.
Cyclamen Giganteum.
For page see List of Advertisers.

DAHLIAS

L. K. Peacock, Inc., Alto, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.
Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNs.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Son, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

Ruxton Floral & Nursery Co., Ruxton, Md.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.
Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves.,
Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 43 W. 29th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 224 and Union Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers

GREENHOUSE BUILDING MATERIAL.

Burnham, Hitchings, Pierison Co., 1133 Broadway
New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

Safety Auto V. & H. R. Co., Lake George, N. Y.
Greenhouse Ventilators.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.
Michigan Cut Flower Co., 38 & 40 Miami Ave., Detroit, Mich.
Fancy Ferns.
For page see List of Advertisers.

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Thos. H. Bambrick, 34 S. 7th St., Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham, Hitchens, Pierson Co., 1133 Broadway
New York.
For page see List of Advertisers.

John A. Scollay, 74 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

Herendeen Mfg. Co., Geneva, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

Johnston Heating Co., St. James Bldg., New York.
For page see List of Advertisers.

HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
For summer blooming.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St., New York
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York. Plants and Bulbs.
For page see List of Advertisers.

JAPAN CANES.

W. Elliott & Sons, New York.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York
For page see List of Advertisers.

LILUM HARRISII.

W. Elliott & Sons, New York
For page see List of Advertisers.

Ralph M. Ward & Co., 12 W. B'way New York.
Bermuda Harrisii Bulbs.
For page see List of Advertisers.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MASTICA.

Joseph Breck & Son, Boston

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St., New York
Pure Culture Spawn.
For page see List of Advertisers.

NEW SPHAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya Scroederiae.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists
For page see List of Advertisers.

PÆONIES.

Gilbert H. Wild, Sarcoine, Mo.
For page see List of Advertisers.

PANSY SEED.

Densy Zingibiel, Needham, Mass.
Zingibiel Giant Pansies.
For page see List of Advertisers.

PATENTS.

F. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

ROSES.

Ruxton Floral & Nursery Co., Ruxton, Md.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St., New York.
English-Grown Roses.
For page see List of Advertisers.

Poehlmann Bros. Co., Morton Grove, Ill.

Young Roses.
For page see List of Advertisers.

Baur Floral Co., Erie, Pa.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St. Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 & 13 Faneuil Hall Sq.
Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Son,
61 & 62 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

R. & J. Farquhar & Co., 6 & 7 S. Market St., Boston
Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Wiegelt & Co., Erfurt, Ger.
Cyclamen Seeds.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinnville, Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Johnson & Stokes, 217-19 Market St., Philadelphia.
Pansy Seeds. Kingly Collection.

G. C. Watson, 1614 Ludlow St., Philadelphia.
Sweet Pea Christmas.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany. Es-
tabl. 1780. High Trade Grass, Clover, and Tree Seeds.

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham, Hitchens, Pierson Co., 1133 Broadway,
New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 412 Hawthorne Ave., Chicago

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 383-87 Ellicott St., Buffalo, N. Y.
Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 127 E. Wabash Av., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Weiland & Risch, 59 Wabash Ave., Chicago.
Winstor Bros., 51 West Av., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterston Co., 45, 47, 49 Wabash Ave., Chicago
Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 129 E. 3d St.

New York.

For page see List of Advertisers.
Donnot Bros., 55-57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Ford Bros., 48 West 38th St., New York.
Wm. Gilmory, 57 W. 28th St., New York.
Alex. J. Guttman, 52 West 29th St.
Jas. A. Hammond, 113 West 30th St., New York.
E. C. Horan, 55 W. 28th St., New York.
Julius Lang, 53 West 30th St., New York.
Chas. Millang, 60 West 29th St., New York.
Frank Millang, 65-67 W. 29th St., New York.
John J. Perkins, 115 West 30th St., New York.
John I. Raynor, 49 West 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Trendly & Schenck, 44 W. 29th St., New York.
Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Phila., Pa.
Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pitts-
burg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue

ANNUAL MEETING FLORISTS' MAIL ASSO-
John G. Esler, Saddle River, N. J.
For page see List of Advertisers.

BOILERS.

Boston Belting Co., 256 Devonshire St., Boston.
For page see List of Advertisers.

CALLA BULBS.

California Nursery Co., Niles, Cal.
For page see List of Advertisers.
A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.
For page see List of Advertisers.

CARNATIONS.

H. Weber & Sons Co., Oakland, Md.
Jessica.
For page see List of Advertisers.

GERBERA JAMESONI.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

NEW FLORISTS' SUPPLIES.

H. Bayerdorfer & Co., Philadelphia.
For page see List of Advertisers.

PÆONIES.

George Hollis, S. Weymouth, Mass.
For page see List of Advertisers.

RAMBLER ROSES.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

SCOTT FERN, SPECIAL.

John Scott, Keap St. Greenhouses, Brooklyn, N. Y.
For page see List of Advertisers.

SWEET PEAS.

Ant. C. Zvolanek, Round Brook, N. J.
New crop seed Christmas.
For page see List of Advertisers.

WHOLESALE FLORIST.

James M. Manus, 50 W. 79th St., New York.
For page see List of Advertisers.

GREENHOUSES BUILDING OR PROJECTED

TRENTON, N.J. — C. Rilsam, three houses.
 BAYADON, WIS. — William Beck, one house.
 LOVA, ILL. — Addens & Morgan, one house.
 EASTON, MASS. — George Geddes, one house.
 CROMWELL, CONN. — A. N. Pierson, rose house.
 CHARLOTTE, MICH. — W. E. Garman, one house.
 OTTUMWA, ILL. — O. P. M. Carey, one house.
 CHARLTON, ILL. — James Krolland, one house.
 ASHEVILLE, N.C. — E. E. Brown, one house.
 ST. LOUIS, MO. — Bourdlet & Roehr, one house.
 HOLYOKE, MASS. — W. H. Phinney, one house.
 MONSON, MASS. — George L. Fuller, one house.
 AURORA, ILL. — Aurora Greenhouses, two houses.
 WAKEFIELD, MASS. — E. Winkler, two houses.
 PORTLAND, IND. — Frank & Son, two houses.
 LOUISVILLE, KY. — Nanz & Neuner, two houses.
 HARRISBURG, PA. — J. A. Kepner, two houses.
 ALLENTOWN, PA. — Andrew Yeager, two houses.
 CENTRALIA, ILL. — J. W. Ross, two houses.
 ROCK ISLAND, ILL. — H. Hensley, range of houses.
 WOHURN, MASS. — Snieder & Co., range of houses.
 NEWBURYPORT, MASS. — C. McGregor, one house.
 ATHOL, MASS. — George W. Sutherland, two houses.
 AURORA, ILL. — Aurora Greenhouse Co., two houses.
 MCKINNEY, TEXAS. — George W. Taylor, two houses.
 STONE CHURCH, N.Y. — Floyd Haynor, violet house.
 MILFORD, MASS. — C. H. Metcalf & Sons, forcing house.
 EMMSBROUGH FIELDS, VT. — J. H. Meigs, house, 15 x 60.
 CONGERS, N.Y. — Schneider & Noe, house 20 x 200.
 GROSSE POINTE, MICH. — Fred Pautke, house 32 x 242.
 MILFORD, MASS. — Mason & Hodges, vegetable house.
 ATHOL CENTRE, MASS. — E. F. Fairbanks, cucumber house.
 HYDE PARK, MASS. — George Anderson, carnation house.
 ENID, OKLAHOMA. — Kenwood Greenhouses, one house.
 CLEVELAND, O. — Kirtner Bros., two houses, each 20 x 80.
 WALTHAM, MASS. — E. N. Pierce & Sons, two houses each 30 x 320.
 ALBANY, N.Y. — White Bros., one house, Fred Golding, three houses.
 DOVER, N.H. — C. L. Howe, 3 houses, 1 x 144, 1 x 144, and 21 x 88.
 PHILADELPHIA, PA. — F. & H. Morganthaler, range of carnation houses.
 HINGHAM, MASS. — Peter B. Bradley, rose and chrysanthemum house, 100 x 20.
 LAKE ODESSA, MICH. — Lake Odessa, Floral Co., two houses each 20 x 100.

The King Construction Co. report having recently placed contracts for Iron Frame Construction as follows:

ROSLYN, L.I. — Mrs. Brice, two houses, each 15 x 100.

WASHINGTON, PA. — E. Culbertson, one house, 25 x 90.
 SANBORN, N.Y. — C. F. Treichler, one house, 29 x 150.
 WILLIAMSBURG, N.Y. — Byrne Bros., one house, 29 x 100.
 E. HAVEN, CONN. — J. A. Long, one house, 21 x 125.
 TEWKSBURY, MASS. — The Patten Co., one house, 28 x 140.
 GENEVA, N.Y. — W. & T. Cass, three houses, each 12 x 75.
 HAMILTON, ONT. — McLeod Bros., two houses, each 24 x 150.
 AYLMEY, QUE. — R. H. Wright, two houses, each 21 x 400.
 WOODSTOCK, ONT. — H. G. Doyle, five houses, each 14 x 100.
 LANCASTER, N.Y. — W. J. Palmer & Sons, one house, 30 x 210.
 DENVER, COLO. — The Park Floral Co., three houses, each 17 x 50.
 ALDERSHOT, ONT. — George Unsworth, two houses, each 21 x 100.
 ROCHESTER, N.Y. — Chas. S. S. Suhr, three houses, each 21 x 67.
 ALAMEDA, CAL. — J. C. Siegfried, one house, 10 x 15, one house, 10 x 24.
 GREENWALD, L.I. — C. E. Bertanzel two houses, each 18 x 200; one house, 18 x 36.
 SYRACUSE, N.Y. — P. R. Quinlan & Co., one house, 28 1/2 x 142; two houses, connected, 21 x 142.
 WESTBURY, L.I. — Chas. Steele, one house, 10 x 100; one house, 21 1/2 x 100; palm house, 30 x 30.
 MT. GREENWOOD, ILL. — Mt. Greenwood Cemetery Association, for W. N. Rudd, three houses 12 x 65, 20 1/2 x 100, 21 1/2 x 114.

Burnham, Hitchings, Pierson Co. report the following contracts:

BEVERLY, MASS. — W. S. Winslow, conservatory.

NO. FARMINGHAM, MASS. — E. J. May, one house.

BROOKLINE, MASS. — William Whitman, range of conservatories.

MALDEN, MASS. — Lester Leland, range of conservatories.

SO. BRAINTREE, MASS. — Ellis Hollinsworth, range of conservatories.

WINDOW GLASS BY MACHINERY

Relative to the manufacture of window glass in Belgium by machinery invented by Emile Fourcault, honorary engineer of the mines at Lodinsart, near Charleroi, the *London Daily Mail*, says:

The Fourcault machine turns out continuously, sheets of glass 39 1/2 inches wide, of any desired length and of a uniform thickness, varying from one-fiftieth to five-sixteenths of an inch. This glass can be obtained as rough glass for making extra thin glass, as horticultural glass, and as window glass for certain export markets. The machine is devised as a box of fire-brick material floating on a "springing fountain" of glass. In the bottom of this box is a slit called the stretcher, and through this stretcher a sheet of plate glass is introduced into the molten mass. The molten glass adheres to this plate. When the plate is pulled up vertically it is followed by a mass of melted material that works up without effort. Once started, the molten glass continues to flow out in a sheet without the plate being dipped in the stretcher again.

The "springing fountain" in which the stretcher floats is a kind of pit, the walls of which are heated by the heat of the glass, and on the top of the pit is an apparatus for dragging the glass up and for annealing. This apparatus is simply a chimney to draw off the heat, in which there are about 17 pairs of rollers. The glass is lifted through

these rollers by adhesion, and by the time it reaches the top of the chimney it is sufficiently cool to be cut with a diamond into desired lengths while still attached to the machine.

The operation of annealing—depriving glass of brittleness by allowing it to cool slowly—is at once difficult and capricious. The greatest importance of annealing in all branches of window-glass making lay in the fact that the plastic glass had to be manipulated by tools which were colder than the glass. It was and is by the older method a very delicate operation. The Fourcault machine does away with all this. Annealing is no more a necessity. The glass coming out from the "delivery box" cools and congeals gradually, and at a certain point has lost its heat. It is then that it comes in contact with the first lifting rollers, which are at the same temperature as the glass itself. Hence the glass appears at the top of the chimney perfectly flat, and possesses unequalled brightness on both sides.

As the Fourcault machine is particularly recommended for its simplicity and for the saving of time and material which it effects, it will no doubt become of great importance to glass manufacturers.

LIST OF PATENTS

Issued July 4, 1905

703,705. Lawn Edge Trimmer. Robert O. Winslow, Providence, R. I.
 704,000. Surface Cultivator. Jacob A. Hamelback, Newark, O.
 704,110. Hoe. Amos Richardson, Milton, Ore.
 704,150. Fruit Gatherer. Carl Hertz, San Francisco, Cal.

Issued July 11, 1905.

704,422. Grass-Cutter. Frank A. Nelson, Wakefield, Mass.
 704,538. Hedge Trimmer. Ernest J. Nolting, North Tonawanda, Kans.
 784,307. Weed-Cutter. Edwin M. Lambson, Walla Walla, Wash.
 704,318. Weed Extirminator. Mathies Schmitt, Austin, Minn.
 704,000. Wind-Turner. Willis M. Ellsworth, Erie, Pa., assignor of one-third to William I. Swartsfager and one-third to L. L. Orton, Erie, Pa.

Issued July 18, 1905

704,701. William N. Dean, Blissfield, Mich. Assignor of one-half to Louis L. Dean, Blissfield, Mich. Lawn-Trimming Tool.
 704,883. Martin L. Porter, Redding, Cal. Basket.
 704,884. Martin L. Porter, Redding, Cal. Fruit-Gatherer.
 704,030. Catherine E. H. Jacoby, Easton, Pa. Flower-Holder.
 705,151. Clarence Monroe and Casius A. Coulier, Loveland, O. Fruit-Picker.
 705,152. James W. Bonnell, Glenville, O. Lawn-Mower Attachment.

Issued July 25, 1905

705,720. Loren Otzen, San Francisco, Cal. Device for Packaging Fruit and the Like.
 705,702. John G. Fassett, Pasadena, Cal. Press-Follower for Dried Fruits, etc.
 705,421. Leroy Swarts, Coldwater, Ohio. Agricultural Implement.
 705,443. Bartow Johnson, Comanche, Texas. Ventilating Appliance.

Robert J. Dysart

Public Accountant and Auditor
 Simple methods of correct accounting especially adapted for florists' use.
 Books Balanced and Adjusted
 Merchants Bank Building
 28 STATE ST. BOSTON
 Telephone, Main 58

TO YOUR ADVANTAGEWRITE FOR OUR PRICES ON
NEW AND SECOND HAND

Gulf Cypress Greenhouse Lumber
Hot-Bed Sash
Greenhouse Glass
Boilers
Pipe and Fittings
Steam Fitting Tools
Hose and Hose Valves
Ventilating Apparatus

**METROPOLITAN
MATERIAL CO.**

Greenhouse
Wreckers

1393-1403 METROPOLITAN AVE.

BROOKLYN, N.Y.

In writing to advertisers, mention HORTICULTURE

**FOR SALE
Boilers for Heating**

Four 60-inch by 16-ft. horizontal tubular boilers, now in use at 80 lbs. pressure. Being replaced with larger ones, they can be had cheap. In perfect running order, and just the thing for greenhouse heating.

BOSTON BELTING COMPANY

256 Devonshire St.

BOSTON, MASS.

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**Standard POTS
Flower...**

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.....

W. H. ERNEST

38th and M Streets, WASHINGTON, D. C.

In writing to advertisers, mention HORTICULTURE

GREENHOUSE MATERIAL

Ask for our Special Catalogue No. 474 describing Boiler Tubes, Boilers, Tubes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts., CHICAGO

"We consider your **PEERLESS GLASS REPAIR CLAMP** a very handy article."

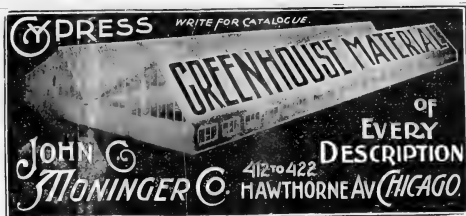
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De Pont, Mich.

For a sample, address A. KLOKNER, Wauwatosa, Wis.

**CURT SAHR
TEACHER OF GERMAN
TRANSLATOR**

32 SPRING PARK AVE.
JAMAICA PLAIN, MASS.



In writing to advertisers, kindly mention HORTICULTURE

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE, 11 FIFTH AVE. 74 FRANKLIN ST. BOSTON.

HEATING APPARATUS**JOHNSTON HEATING CO., 1133 BROADWAY, NEW YORK**

Materials furnished and erected. Write for booklet on BERNHARD Boilers, the new features in this boiler will interest you.
St. James Building



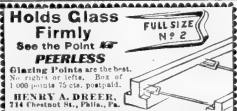
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818 Tremont Building
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Greenhouse Mason Work a Specialty

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**INSURE YOUR GLASS**

in the FOREMIST'S HAND ASSOCIATION OF AMERICA.
"It's too late when you are hit. For particulars address JOHN G. ESLER, Saddle River, N.J."

CYPRESS

SASH BARS
32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing to advertisers, mention HORTICULTURE

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Att'y's fee not due until patent is secured. PERSONAL ATTENTION GIVEN. 15 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$1 a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

**SEND FOR
New Green House Catalogue**

JUST ISSUED BY

King Construction Co.

North Tonawanda, N.Y. and Toronto, Ont.
In writing to advertisers, mention HORTICULTURE.

**SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS****JOHN A. SCOLLAY**

73 and 75 MYRTLE AVENUE
Borough of Brooklyn, N. Y. City



Designed and erected for Judge W. H. Moon, Prides Crossing, Mass.

BEFORE ERECTING A GREENHOUSE
you better **START RIGHT** by getting in touch with our way of doing it!
AND the materials with which we do it! When we say "**WE**" it means Lord
and Burnham, Hitchings & Co., and Pierson-Sefton Co., united under one firm.
This brings to you the best there is in Greenhouse designing and construction,
with facilities for manufacture and direct deliveries, **NOT EQUALLED.**

WE HAVE CATALOGS

BURNHAM HITCHINGS PIERSON CO.
1133 BROADWAY NEW YORK

In writing to advertisers, kindly mention **HORTICULTURE**

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring,
White Cedar Posts, Etc.

We are in a Special "**Pecky Cypress**"
Position to Furnish

Everything in Pine and Hemlock Building Lumber
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorne, CHICAGO
Tel. North 1626 and 1627

In writing to advertisers, kindly mention **How to Order**

GLASS

*FACTORIES ARE NOW CLOSED
for the season. Our stock is complete*

WRITE US BEFORE PLACING ORDERS

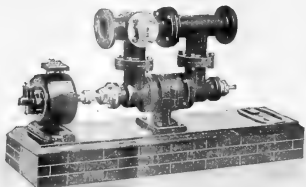
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22d and Union Place, CHICAGO

In writing to advertisers, kindly mention **How to Order**

The Electric Circulator

INDEPENDENT HOT WATER CIRCULATION



A simple automatic device. The circulation of heating water under perfect control as to quantity, and consequent degree of heat delivered from piping. Absolutely reliable under conditions where gravity circulation fails. Overcomes all troubles due to defective piping. Has no parts liable to get out of order. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Will save its cost in fuel in one season. Built in sizes to circulate from 1 to 1000 gallons per minute. Boiler may be placed in any desired situation. Send for descriptive circular.

We are prepared to furnish estimates for, and erect any type of Greenhouse.

HOLLY-CASTLE CO., Engineers

49 Federal Street,

BOSTON, MASS.

In writing to advertisers, kindly mention **HORTICULTURE**

HORTICULTURE

Vol. II.

AUGUST 12, 1905

No. 7



THE FATHER OF THE CHARTER

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Baby Rambler

We have some nice 2 1/2 inch plant
vigorous stock; suitable for forcing
into fine show plants for winter.

\$2 per dozen \$12.50 per 100 \$100 per 1000

CANNAS

We are growing as usual a large stock of the best varieties.
We are receiving many testimonials of LOUISIANA, the
Grand Prize Canna.

THE CONARD & JONES CO., - West Grove, Pa.

Send for Catalogue of

HARDY GARDEN ROSES

larney, Frau Karl Druschki, Caroline Testout, etc.

Strong plants in 8 and 9 inch pots of *The Gold Medal Rose* **LADY GAY**, and fine plants of *Debutante* and *Wedding Bells* for forcing.

READY FOR SHIPMENT NOVEMBER 1

PÆONIES FOR SEPTEMBER PLANTING

Also choice varieties of

**PERENNIAL PHLOX
HOLLYHOCKS, etc.**

Place your orders early for fall plantings of

**LADY GAY
DEBUTANTE
WEDDING BELLS
SWEETHEART and
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and the leading **Hybrid Perpetual** and
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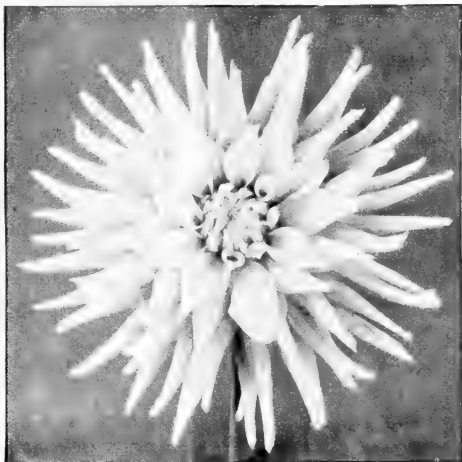
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HORTICULTURE

VOL II

AUGUST 12, 1905

NO. 6

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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE—The Father of the Charter		THE VALUE OF SCIENTIFIC TRAINING—Alex Montgomery, Jr.	162
SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS		EDITORIAL	164
Its History	157	AFTER ADJOURNMENT	165
Officers and Convention Headquarters at Washington—Illustrated	159	OBITUARY F. C. Moseley, Adolph Stoll, John Salter Richards	165
List of Conventions, Officers and Subjects Discussed up to the Present Time	166	NEWS OF THE CLUBS AND SOCIETIES	
J. D. Carmody, Sergeant-at-arms—Portrait	166	Massachusetts Horticultural Society	169
Convention Itineraries	168	American Carnation Society	169
Prizes for Flag Design	169	Detroit Florists' Club	169
Uncle Sam's Contribution	169	CUT-FLOWER MARKET REPORTS	
A Philadelphia Welcome	169	Boston, Chicago, Cincinnati, Louisville, Philadelphia	169
Baltimore's Program	169	MISCELLANEOUS	
FLORISTS' CLUB OF WASHINGTON		New Early Sweet Peas	165
Some of the Workers—Illustrated	167	Personal	165
BRITISH HORTICULTURE—W. H. Adsett	160	Out of the Ginger Jar—G. C. W.	165
THE HOME OF THE CANNA—Illustrated—G. C. Watson	161	Midsummer in Washington—Illustrated	168
		News Notes	169


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Lilium Harrisii, Freesia Refracta Alba
ARE NOW ALL READY FOR DELIVERY

WE ALSO HAVE JAPAN-GROWN

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The Society of American Florists and Ornamental Horticulturists

He who would think to write the history of the Society of American Florists from the time of its inception down to the present—a history correct in its estimates and discerning in its deductions, something more than a mere series of statistics and proxy records—must wait yet a few years until minor and subjective issues have faded into dimness and stand upon the vantage ground of a distance sufficiently remote to insure a comprehensive and broadly impartial measurement of the society's development and influence as a unit. Yet the twenty-first birthday of such an organization is an event worthy of some particular notice and reminds us that the society has now reached an age where we may safely attempt a retrospective review, at least of its earlier days, and draw reasonably fair inferences from the results of our research.

As we glance over the years of the society's life we instinctively compare conditions in the domain of horticulture as they were at the time of its birth with those prevailing today and then try to reason out how much of the admitted advancement is due to its existence. In this effort it is admitted that one's estimate is sure to be colored in a greater or less degree by the closeness of his affiliation with the organization and its policies during the time under consideration, yet we will assume that no fair-minded man will question the presumption that between its activities and the bettered conditions of the art and the craft to whose interests it stands pledged there is a certain direct connection and that it has been "a power in the land for the advancement of floriculture."

It has been said that there is surely no greater wisdom than well to time the beginnings and onsets of things. Thus was the wisdom of the founders of the S. A. F. demonstrated, for the time was most opportune and when the first circular was sent out announcing the birth of "an organization, national in character, honest and progressive in purpose" and outlining its aims, the response from all over the country left no doubt in the minds of its projectors that a great and efficient agency for the elevation of the profession and the benefit of posterity was in their keeping.

The career of the organization shows a rare adherence to the general line of policy outlined in the prospectus. Considering that the experience was new to the promoters and that the field had never been touched before the closeness of the work as mapped out in advance and its realization as now recorded seems most remarkable. It is true that some of the ambitious dreams of the over- sanguine, such as exhibitions throughout the year, a system of examination and registry of gardeners, an experimental garden, library and central home, mutual aid and sick benefits, have never yet materialized, and some of them are not likely to, yet in the main the initial policies have been followed with extraordinary fidelity and this fact speaks much for the foresight and judgment of the men who laid so well the

foundations of the organization. The obligation to benefit the grower of plants or flowers, whether for pleasure or profit, the dealer in these products and the manufacturer, builder and inventor, to collect and diffuse information, to advise, instruct and defend and in general to lift up and carry forward the interests of gardening in all its phases, and to promote the prosperity of the craft has at no time been lost sight of, and, looking back over the annals of the society, who shall say that the promise has not been kept? For twenty-one consecutive years the members have come together annually, some to give their fellow-craftsmen the benefit of the wisdom gained through study and labor, some to listen and acquire knowledge, others to enjoy the unique social privileges of these gatherings and be participant in that delightful blending of festivity and industry, work and relaxation which comes so naturally to the florist constructed on the normal type, and we know that they are more intelligent and better men, as a result.

Dividing the time into five-year periods we find the meetings of the first period characterized by a disposition to debate minor cultural and trade procedures at random and almost exclusively from the standpoint of the commercial florist, rose culture being the dominant subject and the novel opportunity afforded the small operator to cross-examine his more prominent and successful fellow was taken advantage of to full, and sometimes comical, extent. After the lapse of a few years, when the big growers had been pumped dry, the pet theories all well aired and the novelty of the situation had worn off, the broader questions of the uplifting and dignifying of the profession began to come to the front. The need for internal strengthening of the organization itself became also apparent to the more conservative members, and it was soon realized that the problem of so directing the society's activities as to make it a fixed and permanent institution with an established policy and intact membership would demand decisive attention and that very serious work in this direction was yet in store.

Still, notwithstanding the care free, youthful spirit that permeated the period in question, the record shows that some very practical and far-reaching work had been accomplished. The Florists' Hail Association, pregnant with benevolent purpose, the defeat of an obnoxious bill doubling the cost of postage on plants, bulbs and seeds, and a further reduction on original rates on these goods were some of the results achieved. To these may be added the healthy sentiment awakened against the practice of renaming, substituting, exaggeration in catalogue illustrations, and in the interests of correct plant nomenclature.

An analysis of the second period, covering the years up to 1895, shows some interesting facts. The meeting of 1890, lagging in absorbing debates and oral features such as had marked the earlier gatherings, came to the

front with the magnificent object lessons of an unparalleled horticultural exhibition and visits to the most noted examples of finished gardening in America. The gardener element advanced into greater activity and prominence and questions of botanical and scientific interest, nomenclature and hybridization, began to claim attention. The treasury filled up meanwhile and aggressively self-reliant, the S. A. F. sallied forth and encamped on foreign soil, where it had a serious and most industrious convention, then squared itself by a great patriotic pilgrimage the following year to the national capital, which was almost as much picnic as convention.

The turning point of drawing power in the novelty of convention tours had now been reached, an aggressive trade press had seized upon the field of research and debate on every-day cultural questions which had been the mainstay of the earlier conventions and, under the gloom of the great business depression which fell over the entire country interest in the society began to wane and allegiance weakened. It was not the fault of the several communities that entertained the S. A. F. during this era that attendance on the meetings began to fall off, that the treasury ran low and that the future looked ominous. The reaction was, doubtless, inevitable, and its violence was augmented by the universal depression. Through it all, the struggle to regain lost prestige was courageously waged and incessant effort made to repair the breaches and strengthen the weak spots. The time of the annual meetings was shared with the special or "auxiliary" societies, lest the independent growth of these bodies should drain the strength of the parent at this critical time; the long and fruitless attempt to formulate a feasible plan of fire insurance for greenhouses was inaugurated; manifold schemes for co-operation with florists' clubs and special societies were taken up only to be killed in the grapple, and the laborious agitation for a national incorporation was pluckily carried on until, with success seemingly attained, all hopes in this direction were dashed to pieces by the deplorable veto of the charter which Congress had bestowed upon us. Yet these years were not profitless. The nomenclature committee of the society did an enormous amount of effective work; the annual exhibitions had advanced in importance and rules had been put in operation for their systematic management; a substantial reduction of express rates on plant shipments had been secured, and in a general way the society's activities had broadened out from trade topics to the wider field of horticulture.

The period from 1895 to the opening year of the new century was a vital one in the society's history. Starting at the lowest ebb of industrial dejection, with weakened interest and evidences of direct unfriendliness to the national society on all sides, conflicting interests asserting themselves, ill-disposed critics coming boldly out into the open and the treasury balance nearly wiped out, the craft still maintained her course and those who were looking for shipwreck were given the privilege of another guess. A generous attitude was maintained towards other organizations and the willingness to give

everybody a chance was a marked characteristic of those years. The favor with which an invitation to a southern city was received in 1896 gave evidence of the growing inclination to migrate into new fields which reached its realization two years later in the trip to the far west, the audacity of which fairly astounded friend and foe alike. Here the current, which had commenced to turn in the previous year, began to flow strongly and, in harmony with the returning confidence and stability spreading all over the country, the S. A. F. began to quickly regain its lost ground.

Times of adversity often bring out the best qualities of nations, societies and men. The period we have just been considering was one of indomitable industry in seeking the key to united support and sympathy from all interests, in the internal upbuilding of the organization and unquestionably the compact, well-organized body we have today owes much of its structural strength to the devoted labors of those trying years. Even at the time of lowest vitality the papers presented and the discussions at the sessions of the society were of the highest practical and literary order. The president's reception and series of illustrated lectures which have been so popular ever since, the distribution of medals through sister societies for deserving new plants, the life membership system and permanent fund, the abolishment of the delinquent list, the establishment of the department of registration for new plants, the legislative committee, the annual published list of new plant introductions, the yearly report of state vice-presidents, the change of name, the official recognition of the sporting features attendant upon the annual conventions, these all date from this period.

The final securing of a national charter, the new system of government, the express rate victory, the trip to the south and other important incidents in the history of the organization during the last five years are too fresh in the memory to warrant any further reference to them at this time. Summing up the society's career for its twenty-one years of life, we are impressed with the masterful skill, wisdom and resource displayed in the bringing about of such an alliance between so many varied and apparently irreconcilable factors. From the beginning the prevailing sentiment has been to leave the doors wide open and all interests have been freely admitted to its councils and activities. Its roll-book has always borne the names of the leading spirits in American horticulture and yet its policy has been so elastic and unfettered that the average age of the members today is probably younger than that of twenty years ago. The society has all this time been helping the florist to make his place in the community. While stimulating activity, broadening trade channels, and promoting the fraternal spirit, the keynote of its work has been education and its aim has been consistently directed to the elevation and ennobling of the calling of the florist and gardener. The dignitaries who have been pleased to formally welcome the organization to the several cities where it has visited have shown by their words and manner that the Society of American Florists and Ornamental Horticulturists is recognized as an institution entitled to high rank in the public estimation. This is an endorsement that should not be underestimated and may reasonably be interpreted as pointing the way to a more aggressive and self-reliant course of action in matters of general concern. To utilize to full advantage the avenues now opened for eminent service in the cause of American horticulture is the great responsibility devolving upon the society and especially upon those entrusted for the time being with the conduct of its affairs and the shaping of its destinies.



H. B. BEATTY, Treasurer

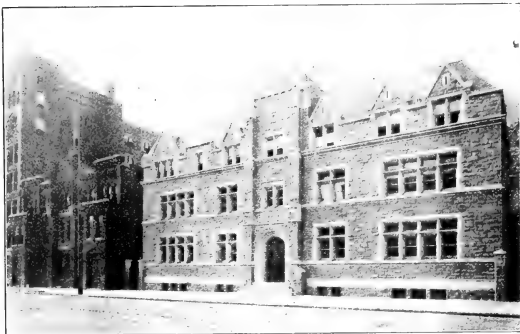


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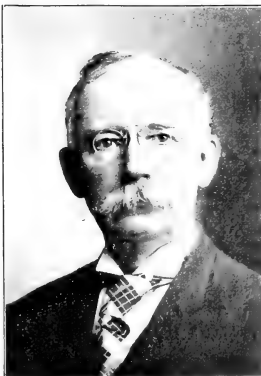


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Officers
and
Convention
Headquarters
for
1905



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GEORGE H. COOKE, Sup't of Exhibition

British Horticulture

A SEED-GROWING CENTER

Although Essex has suffered in recent years from depression in general agriculture, farmers have found a profitable line in growing seeds for the leading firms. Hundreds of acres are devoted to vegetables and flowers, and the climate and soil are particularly suitable for this branch of growing. The season is sufficiently early to grow general vegetable crops which cannot be matured further north. Within a radius of a few miles below Witham is to be found the largest seed-growing district in the country. Here are to be found the seed farms of Messrs. Cooper, Taber & Co., Messrs. King & Sons, Messrs. Dobbie & Co., of Rothsay, who make a specialty of sweet peas. When I visited the district a few days ago there were many complaints prevalent as to the need of rain. The green pea and runner bean crops were suffering, owing to the lack of moisture. One crop of peas I noticed would not yield more than a quarter of a crop, and would be grown at a loss. At the trial grounds of Mr. W. Deal, at Brooklands, Kelvedon, a variety of peas are grown each year. The three varieties being harvested at this time were Sutton's Little Marvel, Green Gem, and Pilot. Mr. Deal considers that the first named is the best early pea in cultivation, and in spite of the drought he has some very heavy crops this season.

SOME USEFUL PEAS AND POTATOES

Mr. Deal also spoke highly of the pea, Thomas Laxton, which is similar to Gradus, but a stumped pod and a better cropper, and a very useful market variety. For a second early, Sutton's Dwarf Defiance has come out well in the trials. It has a very fine dark green pod, growing about two feet high, and it keeps its character. Amongst the newer kinds, Leader, a second early brought out last year by Messrs. Johnson of Boston, was seen to be making a good show, and it is likely to become very popular for market purposes. On the potato section some trials are in progress of interest to the trade. These are being made on behalf of the National Potato Society to demonstrate the variation in the yield of tubers grown at different distances apart. A large variety of the new kinds of potatoes were being tested in other parts of the grounds. Amongst these, Vermont Gold Coin, which has been introduced from America, was seen to be making a sturdy growth. Other meritorious kinds were the Nobleman, a new mid-season kidney; the Highlander, a new crop which has done well in various parts of the country; Excelsior, a first early; the Gem, first early kidney; Sutton's Discovery, etc. Mr. Deal is strongly opposed to the system which has been extensively adopted of forcing the tubers unnaturally to produce a big result from a small quantity of seed. All his potatoes are grown under normal conditions, and as a rule, with favorable weather, good crops are secured. In the cooking tests the Essex potatoes have held their own.

THE R. H. S. GARDENS

The new gardens of the Royal Horticultural Society are now looking at their best. Those members who have not been able to visit Wisley, which is some distance out of London, were able to-day to judge of the beauties of the place from a series of lantern slides shown at a lecture given by Mr. T. S. Wright, the superintendent at the Royal Horticultural Hall. The growth of London rendered it necessary for the society to give up the gardens at Chiswick, and to remove farther into the country, and they have been able to secure a veritable beauty spot in the heart of rural Surrey, through the generosity of Sir Thomas Hanbury, V. M. H. Here a large range of glass-houses has been erected, a new house for the superintendent and other buildings have been completed. A good start has been made in the practical uses to which the gardens are to be devoted. Seven acres have been planted with a representative collection of fruit trees and bushes presented to the Society by such well-known firms as Messrs. G. Bunyard & Co., Dicksons, Ltd., John Fraser, H. Lane & Co., Hugh Low & Co., Paul & Son, J. R. Pearson & Sons, Thomas Rivers & Sons, W. Spooner & Sons, and J. Veitch & Sons, Ltd. The report which will be available as a result of the trials will prove very helpful to the fruit growers, for this is a branch in which there is scope for some useful work, and hitherto the researches as affecting commercial fruit growing have not been very numerous.

THE WORK TO BE ACCOMPLISHED

The garden trials will be supplemented by work in a laboratory for scientific research in questions relating to plant life, diseases, and insect pests. The serviceable aid to horticulture in training students will also receive ample attention. During the past nine years this has been an important branch of the Society's operations at Chiswick, under the direction of Mr. Wright; and the students have secured many high positions and horticultural honors at home and abroad, including two who have established businesses in the United States. It is reported that 90 per cent. of the students are doing well, a satisfactory record. At Wisley the students are admitted for a period of two years, and are thoroughly trained in practical horticulture. That the training is efficient is attested by the many applications made to secure the students when they have completed their course of study. Last year applications were received for thirty-six head gardeners, three single-handed gardeners, ten foremen, eleven journeymen, three foresters, and several as nursery foremen, landscape gardeners, propagators, etc., and as a rule those who have been recommended have given the fullest satisfaction. The Society is fortunate in having such a capable superintendent as Mr. Wright, who is appreciated for his sterling worth, and courteous fulfilment of his duties.

W. H. Adsett.

London, Eng., July 18, 1905.

The Home of the Canna



GLADIATOR

Next to that clever Frenchman, M. Crozy, the world owes more to a talented American, Antoine Wintzer, vice-president of the Conard & Jones Co., for the great advance that has been made in cannas during the past fifteen years, than to any other one man.

Having had the privilege of a trip through several acres of the nursery at West Grove, devoted exclusively to the king of bedding plants, I will now endeavor to give a few of the interesting points in connection with the most striking varieties noted. First, Coronet, a lemon-yellow which originated with Mr. Wintzer while he was still with Blanc. By constant selection it has greatly improved and is one of the most satisfactory of its color. Philadelphia is now well known as one of the best deep crimson sorts, and it also is being improved as to constitution, and there is now no excuse planting such varieties as Chas. Henderson, etc. An unnamed variety marked 1571 is a lovely shade of cerise, flowers very large, standing well above the foliage. 1549 is a grand bronze-leaved orchid-flowered sort which Mr. Wintzer says is the most distinct scarlet with bronze leaves he has yet bred.

Indiana, one of last year's introductions, is an orchid-flowering variety of great merit. I did not like the leggy appearance of the flower stalks so high above the foliage but Mr. Wintzer says this effect is much lessened as the later crops of flowers develop. Next to it and a fine contrast with its dark purple foliage was

Wyoming, also orange but darker than Indiana. This is a grand variety for tropical effect. Immediately beyond we come on last year's sensation, Louisiana, winner of the grand prize at St. Louis. Its color is the nearest to the brilliant crimson of Philadelphia of all the orchid-flowering sorts; blooms seven inches across, large trusses well above the foliage.

When Mr. Wintzer started in to produce a better variety than Florence Vaughan he had no easy proposition, but we are inclined to think that his new Gladiator realizes that ideal. The markings are the same as in Florence Vaughan, the ground deeper yellow and showing up the crimson markings better, giving a brighter effect which is enhanced by the small red center petal. It is also a more profuse bloomer and stands storms better than most varieties. Mont Blanc is the nearest approach to a white yet produced, and while it is good in many ways, the dead flowers persist, giving the trusses a dingy effect; yet it has proved very popular. An improved form appeared this season in a batch of seedlings, and is being guarded with great care.

The new bronze-leaved, scarlet, Chautauqua is one of the best in its class. It is said to keep its color and flower unusually well and to stand more cold. No. 200 is to be named Uncle Sam and is worthy such a good title. It is a shade lighter than Louisiana with leaves a foot broad, larger even than Wyoming. The best yet of the giant orchid-flowering sorts. Duke of Marlborough does well here although there is complaint of it in many localities. It is two shades deeper than Philadelphia. Eastern Beauty is one of the most



CHAUTAUQUA



NIAGARA
GLADIATOR ALLMANIA MONT BLANC
CHEROKEE

attractive among the pink shades. Buttercup is the best yellow of them all, and, next to Chautauqua, stands unfavorable weather the best. Triumph, the dwarfest canna, was not in good shape, the first blooms being just gone. Gardner's Tom Thumb is, I think, still dwarfier and a fine thing. Chameleon, a curious mixture of yellow, orange, pink, white, and apricot, said to have been very popular at St. Louis, did not impress me.

West Grove is a grand variety with fine branching habit, deep pink, large trusses, and a prodigious bloomer and should be better known. Cloth of Gold is doubtless a mighty nice canna when at its best but it bleaches. We admired our old friend, Florence Vaughan, in passing and believe it will be a moon or two yet before Florence abdicates her high place as an all-round canna. Luray, a deep rose variety, was droopy in the hot sun, but we were assured it usually looks fine.

President Cleveland is a good all-round variety, better than McKinley, which is not as good a bloomer. We noted one lot labelled Lovett's McKinley which was good and free, but Mr. Wintzer said it was not the true McKinley.

Pillar of Fire may be described as a much improved Bouvier, a vivid bright crimson, and never droopy like Bouvier. Philadelphia and Marlborough are also improvements on Bouvier. King Humbert away up as to size of flowers and fine foliage but not all that might be desired as to constitution or freedom of flowering and does not clump up well. George Washington, a vivid crimson, is notable for its finish and fine habit. The old Alsace is interesting only as the parent of Mont Blanc, six generations removed. The same may be said of Queen of Holland which used to be liked as an orange with a bronze leaf, but the orchid-flowering varieties have superseded it. Betsey Ross, the clearest of the pinks and the dwarfest; same size as Crozy but bigger leaves and larger trusses. Martha Washington is in the same class, slightly darker pink, and with larger flowers. Mile. Berat, a dark pink with long, narrow petals; not in it with Betsy Ross or Martha Washington. Brandywine is a fine dark-leaved sort with deep wine red flowers and spreading habit. Supersedes Egandale. Mrs. Kate Gray the tall orchid-flowering scarlet was good in its day, but succumbed to Pennsylvania as the latter did in turn to the magnificent Louisiana. Giant Crimson was a good one ten years ago and is still one of the striking red sorts. California, otherwise known as Klondike, is a unique shade of golden-orange, but it bleaches and cannot be placed now among the first raters.

We noted among the seedlings, 2060, a very fine ruby red. This is its seventh year, but enough stock has never been available to warrant sending it out. Thousands of others have either been thrown away or held in abeyance awaiting evidence of worthiness. This firm has sent out over sixty varieties and has a number of new ones for dissemination in the near future. Mr. Wintzer says he has not nearly reached the height of his ambition yet, but any one with his record on the canna might well rest satisfied. I would like to say something more about the achievements of Mr. Wintzer, but I know what a horror he has of the latest epidemic—Burbankitis—and would therefore err rather with an insufficiency than a redundancy.

L. G. Watson

The Value of Scientific Training

Editor of HORTICULTURE:—Dear Sir: Having often noted your evident interest in agricultural education, it has occurred to me that you might possibly welcome a few brief notes from one who knows some of the misunderstandings which the general public has in regard to such education.

While my thoughts in the main run in the defense of this theoretical training, I find it impossible to refrain from criticising those who, having had the opportunity for acquiring such knowledge, wholly rely upon it in

dealing with problems so little understood as the forces of nature. I shall make no attempt to give you my views on the value to agriculturists of higher education in general, but will confine myself strictly to those sciences which have a direct and practical bearing on the production of plant life.

There has been considerable criticism, no doubt much of it justifiable, in regard to the actual results accomplished by many agricultural college graduates who have engaged in agricultural and allied pursuits. Now,

before we attempt to locate the causes for these apparent failures, it is necessary for us to have some slight knowledge of what the theoretical training consists of. Therefore, let us consider briefly the three principal branches which have a bearing on the subject.

Botany. The importance of this science is, I believe, generally underestimated. As far as I can learn the common understanding among those who are not well informed, seems to be that it is the study of the names of the various species of plants; that anyone who has a herbarium of dried wild flowers laid away in a dark closet, and has the ability to pronounce properly the Latin names without looking on the text, is a highly educated botanist. If we accept this as a fair sample of the belief of some of our poorly-informed critics, we can readily understand why it is that many people think that this study has very little practical value for the grower of plants.

In contrast to this let us look on just one phase of the subject and see how it appeals to us. Consider the plant as a living, growing organism, consisting of roots, stems, leaves and flowers. Learn the relation of its parts one to the other, both in health and in disease. Examine the cell structures and find out their specific functions, from the ends of the roots to the tips of the leaves. Study the intricacies of the reproductive organs and the means of perfecting or retarding their development. Investigate how the plant gets its nourishment, in what forms, and how and when the natural courses may be assisted. Finally consider the effect of its surroundings of soil, air, moisture and sunlight.

Then again, there is still another side to this question. Take the matter of fungous diseases. All of our most troublesome ones are merely the manifestations of the activity of the lower forms of plant life. They must be fed and nourished just as surely as must the higher forms, but, unlike them, they are detracting from rather than adding to the results of our best efforts. If we understand the various forms which these plants assume, whether they live inside of their hosts or merely on the surfaces, whether they flourish better in the soil or above it, then we are in a position to effectually overcome their ravages. Are not these every day matters, and can anyone know too much about them? Surely then such studies ought to be helpful and the knowledge gained to have a practical application.

Chemistry appears to be regarded as the science of mystery, and indeed, in many ways, this seems to be justified. A prevalent impression is that a grower would have perfect control of his plants if he could analyze his soil and find out just what elements, and the exact quantities of each, are required to produce maximum results. Unfortunately, the science of chemistry has not yet been advanced far enough to enable us to do this. I quote the following from a recent bulletin in order to show how the experiment stations stand in regard to this matter: "Soil analysis is of little avail. There are several reasons for this. The chemist is not able to distinguish between the available and the unavailable plant food in the soil. He may find an abundance which, owing to its insolubility, the crop cannot use. Soil analysis may disclose a relative lack of plant food or the presence of some deleterious matter; but farther than this at present, common notions to the contrary notwithstanding, it can do but little."

Nevertheless, if the chemists are not able to give us any definite assistance in regard to this one point, there are still many ways in which the study of the subject can be made to help us in a practical way. I have in mind as I write two grades of bone meal, number one selling for thirty dollars and number two for thirty-five, both under a guaranteed analysis and warranted as to purity; but, when figuring out the value of these according to the amount of plant food in each, we find that number two, the more expensive, is actually worth five dollars less than number one.

Now, such facts as these demand the attention of the practical grower, not as a matter of sentiment, but as affecting the profitable conduct of his business. Many such examples could be cited, but this serves to illustrate the point.

Indeed chemistry has a practical bearing on everything connected with our work; the soil, the plants, and even the very air they breathe. And aside from our plants it concerns our wood, our iron, our paint, our coal. The secrets of the safe and economical handling of insecticides and fungicides are all laid bare through its agency. In fact I can think of nothing which could be of more actual value to us than the study of this very interesting science.

The study of Entomology also has a practical value. While I do not believe it is necessary to devote as much time to it as to the other subjects, nevertheless it should not be neglected, for it enables us to penetrate some of the mysteries of the insect world, and to cope intelligently with the destruction caused by these little pests.

Now, Mr. Editor, I think that, after glancing over this very brief outline of a few of the items bearing on theoretical education, most of your readers will agree with me that, if they can do a young man no good, at least they can do him no harm. I do not wish to be misunderstood on this point, however. When I say that they can do no harm, I mean if the theories have been properly mastered. Indeed I think that the old saying, "A little learning is a dangerous thing," must surely have been coined to fit the partially educated theoretical gardener.

A word as to the young man who has just graduated. It seems as though higher agricultural education as at first constituted must have been founded on the world-renowned Socrates principle of theory and practice. However it is year by year gradually drawing away from this, so that today the student gets his theory from educated scientists and is left to get his practical training from men who have devoted a life time to acquiring the knowledge of a set of facts which are not found in books and can be obtained only through the hard knocks of experience. These men who have had only a practical training have, by dint of hard work, an inborn love for their particular branch of the business, and above all a natural gift of the power of keen observation, achieved a success far above the average of their fellow craftsmen.

In concluding I would say that it is my opinion that, unless our theoretical youngsters will associate themselves with some of these growers, for two or three years at least, they will not only, not be as successful as they otherwise would, but they will continue to throw discredit on the value of agricultural education when adapted to actual business conditions.

Alex. Montgomery, Jr.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, O-ford 242

WM. J. STEWART, Editor and Manager.

The Editor Has His Say.

HORTICULTURE extends greetings and timely congratulations to the S. A. F. on its twenty-first birthday. With the assured permanent support of the bone and sinew of the profession, with more money in the treasury than ever before, this lusty organization has good reason to feel jubilant.

The laying of the corner stone of the new Breitmeyer building in Detroit a few days ago was something more than a step in the development of an ordinary business enterprise, as we look at it. To those who have known the men—father and sons—and have watched their business grow from small beginnings to the greatness which makes this event a possibility, it stands as an impressive example to the young man of what floriculture offers to him who will put industry, intelligence and integrity into its service. All will be glad to congratulate the Messrs. Breitmeyer on the prosperity which this occasion marks, for they know how it has been attained.

Eternal vigilance is the price we must pay henceforth for immunity from insect depredations. Fancied security, as in cases recently noted with respect to the elm-leaf beetle, where the pest had been brought well under control, leads to a relaxation of effort which the insects are not slow to take advantage of. This condition is not likely to obtain, however, in the case of the gypsy moth which has this season made a tremendous increase throughout the section infested in eastern Massachusetts and control seems further off than ever. In places where the insects have been driven from the trunks of the roadside trees they have taken to the curbstones and deposited their egg masses thereon. All indications point to the probability of unprecedented damage next season despite the most energetic resistance that may be made.

Frequent notes in HORTICULTURE, also the tenor of the advertisements, indicate a steady endeavor and advance toward critical specialization in the growing of flowers for commercial disposal. In the case of the many varieties raised from seed which have been rapidly gaining favor of late as florists' specialties it is to be noted that our seedsmen are exerting themselves as never before to secure a supply and consequently to encourage the careful raising of strains of seed of surpassing excellence and purity. That they are succeeding must be plain to everyone who follows their advertisements or has noted the greatly improved forms

of many old popular favorites now to be seen in the ordinary florists' stock of cut flowers. There was a time when the use of superlative adjectives in the seedsmen's catalogue was apt to awaken more or less scepticism in the reader—the bigger the claim the greater the incredulity—but now when a seedhouse of any standing makes an assertion as to the characteristics of superiority in its selections we are ready to accept such with confidence, knowing that what were once but ideals are today realizations, through the painstaking work of the specialist and improved under the spur of the enterprising seedsmen who is ever ready to supply the motive power for such endeavor.

This issue of HORTICULTURE will find its subscribers either started or about to start for Washington or decided to stay away, and nothing we can now advance will avail to increase the attendance at this important gathering of the progressive horticulturists of our country. We take opportunity to say to those who could be present but will not, that they are making a serious and expensive mistake—expensive to themselves, for they are surely destined to fall behind in the race with their better informed and more progressive brethren, and expensive to the cause of advanced floriculture, which needs the moral support of every individual engaged in this calling and suffers in proportion as that support is withheld. It is not a question of whether you admire or do not admire the manners or methods of any man or aggregation of men identified with the society or whether you fully endorse what the society has done or entirely agree with its management of conventions, but whether, putting personalities into the background, you are disposed to come forward manfully and unselfishly and contribute to the general good by doing your part towards extending the influence and usefulness of your national organization.

"To look up and not down,
To look forward and not back,
To look out and not in, and
To lend a hand!"—

that is the policy that will win out.

What They Say of Us

Boston, Mass., Aug. 8th, 1905.

WM. J. STEWART, Editor HORTICULTURE:

Dear Sir:—We wish to throw two bouquets. One to you, the other to ourselves. We sincerely congratulate you upon the wide and valuable circulation HORTICULTURE must have, judging solely by the inquiries we have received as well as the orders placed through our advertisement. We find it reaches far and beyond what we surmised (New England). Our letter list shows that its advertising columns extend to and beyond the Great Lakes. Therefore, we throw you the first bouquet, and the second one we feel justified in casting our way, that we evidenced good judgment in placing the circulator ad. with you. What we have already received amply justifies the expenditure. We shall be in Washington and be prepared to show interested parties that what we have announced in your columns is what we claim, a simple, practical, automatic solving of greenhouse heating.

We remain Very truly yours,
WILLIAM W. CASTLE.

For Holly-Castle Co.

AFTER ADJOURNMENT.

Among the many valuable inventions and novelties to be exhibited at Washington next week none touch closer to a universal need than the Holly-Castle device for securing independent water circulation in greenhouse heating apparatus. It will be shown in operation.

Harry Bayersdorfer seems to rest easy under his new title, "The Merchant Prince." His Highness will not take his usual over Sunday at Atlantic City this week as he wishes to be in Philadelphia to greet his many out of town friends on their way to the convention. He wishes us to state that any one arriving on Sunday will find the latch-string out at his private residence, 1629 Diamond St.

Parisian florists, not to be behind in fashionable colors, are giving their flowers for corsage use a "dead" look to comport with the "dead" tones of the toilet.—Boston Evening Record.

Here is encouragement for the "salter." Can it be possible that his beloved treasures of the storage cellar are destined to meet with desired appreciation, and the expert in "holding back" come forward as the hero of the fashionable hour?

At the store of Spencer & Martin, 221 Genesee street last evening, the Utica Florists' Club held a meeting. It was decided to hold a clam bake at Wright's Grove, August 16. The following committee on entertainment was appointed: W. A. Rowlands, Harry Mathews, William Kauffer and J. C. Spencer.—Utica Herald.

Looks too much like a counter attraction to the S. A. F. convention, doesn't it? What think you?

Trades unionism seems to have reached the heights of arrogance in the matter of music for the public parks of New York, and a park commissioner appears to have attained the extreme of nauseating snivelling in giving assurance that in the parks under his supervision non-union singers were not to be found. The New York Tribune, commenting on this, submits that "The assurance must be gratifying indeed to every one who has the interests of union music at heart. Now let all who have taken out cards in the Musical Union join in singing our grand national anthem—third stanza, please:

"Let music swell the breeze,
And ring from all the trees
Sweet Freedom's song;
Let union tongs awake;
Let not a 'scab' partake;
Let rocks their silence break,
The sound prolong."

PERSONAL

W. A. Bridgeman, formerly with Thorley, is now associated with the Thomas Young, Jr., Company, at 41 West 28 street, New York.

Ulysses P. Hedrick, of the Michigan Agricultural College, has been appointed horticulturist at the N. Y. State Experiment Station at Geneva.

Mr. C. T. Guenther of Hamburg, N. Y., who has been confined to his home by sickness for the past two months is again able to be at his business.

OBITUARY.



FREDERICK C. MOSELEY

We are pained to record the death by a terrible accident of F. C. Moseley, vice-president, and secretary of the A. T. Stearns Lumber Co., at Neponset, Mass. Mr. Moseley, who was afflicted with deafness, was struck by an outward-bound express while crossing the tracks at Neponset station to take an inward-bound train for his office, on the afternoon of Wednesday, August 9, and was instantly killed. A business acquaintance of a number of years justifies us in saying that the death of Mr. Moseley is an irreparable loss to his business associates and the community in which he moved. His age was 47 years.

Adolph Stoll of Baltimore, Md., died on August 1, aged 76 years.

John Salter Richards, long known as "Uncle Dick Richards," of Brookline, Mass., and reputed to be the oldest horticulturist in the country, died at his home in Brookline, Mass., on August 3, at the age of 94 years. He was a native of Cullompton, Devonshire, Eng. For many years he was a prominent exhibitor at Horticultural Hall, Boston, excelling especially in the cultivation of roses.

NEW EARLY SWEET PEAS.

August 1, 1905.

Editor of Horticulture:—

Dear Sir:—Having read the article over sweet peas, where Mr. G. C. Watson says that we only need an early variety like King Edward, and like Lady Hamilton (Page 115), I wish to say that if Mr. Watson will come in December or January to my place, I think I can show him several shades of them, besides very near all existing colors. Many of these I expect to introduce very soon.

Very respectfully,

ANT. C. ZVOLANEK.

Bound Brook, N. J.

The Kentucky Society of Florists held its monthly meeting on August 1st at August R. Baumer's store, the Masonic, with the usual attendance. Progress on the November Flower Show was made.

OUT OF THE GINGER JAR.

Visitors to Philadelphia, before or after convention, should not fail to see the crotons on the Girard College Grounds. They are looking very bright at present, and are an object lesson as to what can be done with this plant in ornamental bedding. Besides, you will have an opportunity of shaking hands with your old friend, Edwin Lonsdale. No man more "delight-ed" than he to welcome visitors.

When making an end of the rest of the graft in the Agricultural Department there will be some prospect of putting an end to the paltry seed swindle at the expense of the public treasury and of the honest seedsmen. Philadelphia Record.

If the President and the Secretary of Agriculture can do that, they will deserve well of their country. But they have the job of their lives! That graft has a tap root that goes deep, and the devil has a grip on the end of it. It will take a stump-puller bigger than anything we have yet heard of to get that villain out! But our President is a large and shining example. Let's hope he can do it!

The Rural New Yorker shows an illustration of *Cephalophyllum Drummondii*, from which is selected the so-called "fadeless flower" of Burbank. So far as we can judge at present, this has nothing to recommend it beyond other good old-fashioned everlastings, such as *acrolinium*, *rhodante*, *hell-chrysum*, etc. It is to be feared that Luther has been doing overtime of late, working the newspapers.

G. C. W.

VACATIONISTS.

Mrs. F. R. Hill of Baltimore visiting points of interest about Boston and Newport.

William Gardner, manager for Peter Weiland's wholesale house, has gone to Canada with George Magrie.

W. F. Holmes and wife visiting east. W. J. Palmer and family at Muskoka Lake, also C. D. Zimmerman at same place; all of Buffalo, N. Y.

Mrs. C. C. Lowe, Long Beach, Cal., is visiting in New England and will attend the convention at Washington. A. H. Whitcomb, Lawrence, Kans., is at Mansfield, Mass., and will join the Boston party going to the convention.

The largest cut flower and plant store in the Pacific coast section of the United States is that of Soulbarger in the heart of Oakland, Cal. Fred Soulbarger, son of the venerable flower merchant, is at the fore as the present active manager of the business and just now his measure of life contentment is full to running over, first because of the success of his recent distribution of colonies of Oriental parasites for moth destruction and, second, because he is now in the transport period of honeymoon life, in a beautiful home of his own, designed by himself.

Society of American Florists and Ornamental Horticulturists.

LIST OF CONVENTIONS, OFFICERS AND SUBJECTS DISCUSSED, UP TO THE PRESENT TIME.

Cincinnati, O., August 12, 13, 14, 1885.

Officers.—President, John Thorpe, Queens, N. Y.; Vice-President, J. M. Jordan, St. Louis, Mo.; Secretary, E. G. Hill, Richmond, Ind.; Treasurer, M. A. Hunt, Chicago, Ill.

Lectures and Papers.—Diseases of Plants and their Remedies, Charles Henderson; Plant Nomenclature, Robert J. Halliday; The Cut Flower Trade, William J. Stewart; Roses, J. N. May; Spring and Summer Cut Flowers, H. Michael; Steam vs. Hot Water, John Thorpe.

Philadelphia, Pa., August 18, 19, 20, 21, 1886.

Officers.—President, John Thorpe, Queens, N. Y.; Vice-President, Robert Craig, Philadelphia, Pa.; Secretary, E. G. Hill, Richmond, Ind.; Treasurer, M. A. Hunt, Chicago, Ill.

Executive Committee.—R. S. Brown, J. C. Vaughan, R. J. Halliday, H. Sunderbruch, J. Y. Murkland, George Field, B. P. Critchell, J. M. Jordan, J. N. May.

Lectures and Papers.—What the Craft has been doing the past Forty Years, Peter Henderson; Treatment of Tea Roses during Summer, A. Wintzer; Hybrid Perpetual Roses for Out Door Summer Bloom, John Henderson; Pot Grown Roses for Market Purposes, Robert Craig; Greenhouses and How to Build Them, J. N. May; Pot Grown Decorative Foliage Plants, James Taplin; Carnations and Their Treatment, Joseph Talley; Making up Floral Designs, A. Le Mout; Advantages of Hot Water Over Steam for Heating Purposes, J. D. Carmody.

Chicago, Ill., August 16, 17, 18, 1887.

Officers.—President, Robert Craig, Philadelphia; Vice-President, J. C. Vaughan, Chicago; Secretary, Edwin Lonsdale, Chestnut Hill, Pa.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—John Thorpe, R. J. Halliday, J. M. Jordan, C. B. Whitnal, E. G. Hill, H. A. Siebrecht, J. N. May, Alex. Murdoch, W. J. Stewart.

Lectures and Papers.—Hybridizing and Cross Fertilization, John Thorpe; Summer Propagation of Roses, E. G. Hill; Roses on Stocks, Charles P. Anderson; Orchids, H. A. Siebrecht; Potting Hardy Shrubs, Jackson Dawson; Retail Flower Business, J. M. Jordan; Business Methods, A. E. Whittle.

New York, N. Y., August 21, 22, 23, 1888.

Officers.—President, E. G. Hill, Richmond, Ind.; Vice-President, J. N. May, Summit, N. J.; Secretary, W. J. Stewart, Boston; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—Peter Henderson, A. P. Calder, C. D. Ball, F. R. Pierson, H. Michel, J. M. Keller, A. M. Whittle, J. D. Reynolds, W. G. Bertermann.

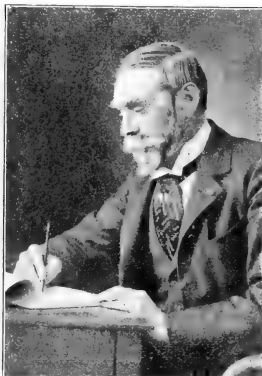
Lectures and Papers.—The Elevation of our Business, H. H. Battles; Ferns, Palms and Other Decorative Plants, C. D. Ball; Roses from the Retailer's Standpoint, Thomas Carlidge; Roses from the Grower's Standpoint, Edwin Lonsdale; Nomenclature, R. J. Halliday; Modes of Heating and Relative Cost of Construction and Operation, J. D. Reynolds; Soils and Fertilizers, J. H. Taylor.

Buffalo, N. Y., August 20, 21, 22, 23, 1889.

Officers.—President, J. N. May, Summit, N. J.; Vice-President, W. J. Palmer, Buffalo, N. Y.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—Peter Henderson, A. P. Calder, C. D. Ball, R. J. Halliday, J. M. Keller, A. E. Whittle, J. D. Reynolds, J. T. Temple, Frank Huntsman.

Lectures and Papers.—Some of the Best Roses of Recent Years, W. C. Barry; The Elevation of Our Business, Robert Craig; Education, H. H. Battles; An Experimental Garden, John Thorpe; Summer Blooming Flowers for Florists' Use, A. E. Whittle; Horticultural Exhibitions, Edwin Lonsdale; Making and Application of Heat as Used in Greenhouses, J. S. Wil-



THE SECRETARY-AT-ARMS.

Yours By Gash
J. D. Carmody

liams; Landscape Gardening, Wm. McMillan; Orchids, the Natural Habitat of the Leading Varieties, I. Forstermann.

Boston, Mass., August 19, 20, 21, 22, 1890.

Officers.—President, J. M. Jordan, St. Louis, Mo.; Vice-President, M. H. Norton, Boston, Mass.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—A. P. Calder, J. M. Keller, J. D. Reynolds, Frank Huntsman, R. J. Halliday, J. T. Temple, John Burton, D. B. Long, Wm. Falconer.

Lectures and Papers.—Easter Trade, James Dean; System in Business, D. B. Long; The Use of Special Fertilizers Under Glass, Prof. S. T. Maynard; Succulents, E. S. Miller; Hardy

Herbaceous Plants, J. Woodward Manning; Petroleum as Fuel, J. B. Moore; Some Failures and Successes in Crossing and Hybridizing, E. S. Carman.

Toronto, Ont., August 18, 19, 20, 21, 1891.

Officers.—President, M. H. Norton, Boston, Mass.; Vice-President, John Chambers, Toronto, Ont.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—Frank Huntsman, Wm. R. Smith, J. T. Temple, Wm. Falconer, John Burton, D. B. Long, Jas. Dean, P. Welch, H. W. Buckbee.

Lectures and Papers.—The Future of Horticulture in America, W. A. Manda; Sub-tropical Bedding, David Allan; Aquatic Plants, Benj. Grey; Cereals, H. B. Beatty; Store Trade, W. H. Long; Winter Flowering Plants for Decorative Purposes, W. H. Taplin; Begonias, John Chambers; New Carnations, Fred Dorrer; A Review of New Plants, Wm. Falconer, Glen Cove.

Washington, D. C., August 17, 18, 19, 20, 1892.

Officers.—President, James Dean, Bay Ridge, N. Y.; Vice-President, W. R. Smith, Washington, D. C.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—Wm. Falconer, John Burton, D. B. Long, P. Welch, H. W. Buckbee, W. A. Manda, C. W. Hoitt, J. H. Dunlop, J. T. Anthony.

Lectures and Papers.—Fungous and Other Rose Troubles, Prof. Byron D. Halsted; Why Insects Infest Plants, John Saul; The Propagation of Roses, Paul Pierson; The European Bulb Market and the American Buyer, John Reck; Hints on Hybridizing and the Improvement of Plants, Richard Bagg; Review of New Plants, Wm. Falconer; Cut Flowers for Holiday Demands, Henry Young; Floriculture for Children, Robert Parquhar.

St. Louis, Mo., August 9, 10, 11, 12, 1893.

Officers.—President, Wm. R. Smith, Washington, D. C.; Vice-President, Prof. Wm. Trelease, St. Louis, Mo.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—W. A. Manda, P. Welch, H. W. Buckbee, C. W. Hoitt, J. H. Dunlop, J. T. Anthony, Benj. Durfee, P. O'Mara, H. B. Beatty.

Lectures and Papers.—Carnations, C. H. Allen; Chrysanthemums, Elmer D. Smith; Successful Rose Growing, R. F. Tesson; Horticultural Exhibitions, W. G. Bertermann; Neglected Plants in Outdoor Decoration, James Gurney; Hybridizing, Dr. J. M. Macfarlane; Labor Saving Devices, P. O'Mara.

Atlantic City, N. J., August 21, 22, 23, 24, 1894.

Officers.—President, J. T. Anthony, Chicago, Ill.; Vice-President, Robert Kirt, Philadelphia, Pa.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, M. A. Hunt, Terre Haute, Ind.

Executive Committee.—C. W. Hoitt, J. H. Dunlop, J. C. Vaughn, Benj. Durfee, P. O'Mara, H. B. Beatty, Alex.

Some of the Washington Workers



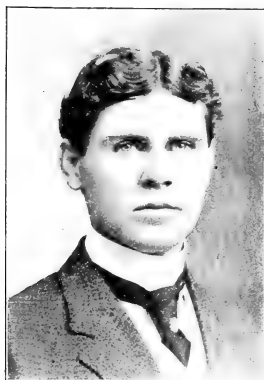
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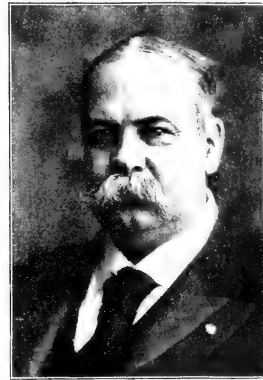
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WM. H. ERNEST, Chairman Bowling Com.



EDW. A. MOSELEY, Chair, Entertainment Com.

Waldhart, J. C. Rennison, Elijah A. Wood.

Lectures and Papers. Elevation of our Business, W. H. Taplin; Comparative Colors and Their Relation to Flowers, F. Schuyler Mathews; The Best Method of Growing Roses, John H. Taylor; Orchids as Commercial Flowers, Wm. Mathews; Evolution of the Chrysanthemum, Grove P. Rawson; Cannas, John T. Temple; Aquatics, Wm. Tricker; Successful Violet Culture, Andrew Washburn; Fertilizers and Their Application, Robert Simpson; Classification and Inspection of Commercial Plants, G. L. Grant.

Pittsburg, Pa., August 20, 21, 22, 23, 1895.

Officers.—President, Edwin Lonsdale, Chestnut Hill, Philadelphia, Pa.;

Vice-President, E. C. Reineman, Alleghany, Pa.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—Benj. Duffee, P. O'Mara, W. N. Rudd, Alex. Waldhart, J. C. Rennison, Elijah A. Wood, Jackson Dawson, Grove P. Rawson, H. H. Battles.

Papers and Discussions.—Horticultural Education, Charles J. Dawson; Mysteries of the Flowers, William Hamilton Gibson; Improved Chrysanthemums, extant and essential discussion opened by E. G. Hill; Latest Facts As to Carnations, opened by Fred Dornier; Latest Facts As to Roses, opened by John Burton; Hardy Flowers for Florists' Use, J. Woodward Manning; The Society's Interests in

Popular Horticultural Advancement, Prof. J. F. Cowell.

Cleveland, O., August 18, 19, 20, 21, 1896.

Officers.—President, Wm. Scott, Buffalo, N. Y.; Vice-President, Adam Graham, Cleveland, O.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—Alex. Waldhart, J. C. Rennison, Elijah A. Wood, Jackson Dawson, Grove P. Rawson, J. F. Cowell, W. K. Harris, John G. Essler, W. N. Rudd.

Papers and Discussions.—What Has Been Accomplished by the Carnation Society? R. W. Sheldrake; What Has Been Accomplished by the Chrysanthemum Society? E. A. Wood; Commercial Law as Applicable to our

Business, Hon. C. W. Hoitt: The Beauties of the Flowers, Henry T. Bailey; The Chemical Tripod in Floriculture, Dr. R. C. Kedzie.

Providence, R. I., August 17, 18, 19, 20, 1897.

Officers.—President, Adam Graham, Cleveland, O.; Vice-President, Farquhar Macrae, Providence, R. I.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa. Executive Committee.—Jackson Dawson, Grove P. Rawson, J. F. Cowell, W. K. Harris, J. G. Esler, W. N. Rudd, Elmer D. Smith, W. F. Gude, George M. Kellogg.

Papers and Discussions.—Root Galls on Cultivated Plants, Prof. B. D. Halsted; The Florist as Scientist vs. Artisan, F. W. Rane; Trees and Shrubs Grown by Florists, Chas. J. Dawson; Our Favorite Exotic Plants in Their Own Homes, Prof. George L. Goodale; Bedding Plants, J. J. Butler; A Year's Progress in Roses, M. H. Walsh; A Year's Progress in Carnations, Wm. Nicholson; Progress in the Retail Trade, Thomas J. Johnston.

Omaha, Neb., August 16, 17, 18, 19, 1898.

Officers.—President, W. F. Gude, Washington, D. C.; Vice-President, A. Donaghue, Omaha, Neb.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—W. K. Harris, J. G. Esler, W. N. Rudd, Elmer D. Smith, George M. Kellogg, E. M. Wood, John H. Taylor, W. W. Coles, E. H. Cushman.

Papers and Discussions.—A Few Remarks on the Dahlia, L. K. Peacock; Bulb Growing in America, Prof. W. F. Massey; Trade Exhibitions, E. H. Cushman; Grafted Roses for Growing Under Glass, Robert Craig; Improvement in Varieties and Improvement in Cultural Methods as Exemplified in High-grade Flowers, E. G. Hill.

Detroit, Mich., August 15, 16, 17, 18, 1899.

Officers.—President, W. N. Rudd, Mt. Greenwood, Ill.; Vice-President, Philip Breitmeyer, Detroit, Mich.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—Elmer D. Smith, George M. Kellogg, Edmund M. Wood, E. H. Cushman, John H. Taylor, W. W. Coles, Jno. F. Cowell, C. W. Ward, Lawrence Cotter.

Papers and Discussions.—Hybridizing and the Introduction of New Carnations, C. W. Ward; The Development of Public Patronage in the Flower Trade, J. F. Sullivan; Rose Pests and How to Exterminate Them, E. M. Wood.

New York, N. Y., August 21, 22, 23, 24, 1900.

Officers.—President, E. M. Wood, Natick, Mass.; Vice-President, F. R. Pierson, Tarrytown, N. Y.; Secretary, J. M. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—E. H. Cushman, John H. Taylor, W. W. Coles, John F. Cowell, C. W. Wards, Lawrence Cotter, J. D. Carmody, J. F. Sullivan, A. B. Cartledge.

Papers and Discussions.—Floral Decorations, Robert Kift; Greenhouse Construction, J. D. Carmody; American Floriculture, Prof. B. T. Galloway; New York Botanical Garden, Dr. N. L.

Britton; The Improvement of the Carnation, Wm. Weber; The Welfare of Our National Society, Robert Craig; The Rose, E. G. Hill.

Buffalo, N. Y., August 6, 7, 8, 9, 10, 1901.

Officers.—President, Patrick O'Mara, Jersey City, N. J.; Vice-President, Wm. F. Kasting, Buffalo, N. Y.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Executive Committee.—C. W. Ward, J. F. Cowell, Lawrence Cotter, J. D. Carmody, A. B. Cartledge, J. F. Sullivan, Alex. Wallace, Richard Witterstaetter, Emil Buettner.

Papers and Discussions.—Flowering Plants and Their Treatment for Christmas Sales, Wm. P. Craig; The Old and the New Century in Horticulture, John N. May; The Fuel Question in Greenhouse Heating, Prof. L. R. Taft.

Asheville, N. C., August 19, 20, 21, 22, 1902.

Officers.—President, John Burton, Philadelphia, Pa.; Vice-President, J. W. C. Deake, Asheville, N. C.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa. Directors.—J. F. Sullivan, A. B. Cartledge, J. D. Carmody, Alex. Wallace, Emil Buettner, R. Witterstaetter, F. R. Mathison, Robert J. Halliday.

Papers and Discussions.—The Wholesale of Cut Flowers, Edgar Sanders; The Retailing of Cut Flowers, George Wienhoeber; Needs of Northern Forests, Fred R. Mathison; Bulb Culture in North Carolina, W. F. Massey; The Bulb Situation, Wm. R. Smith.

Milwaukee, Wis., August 18, 19, 20, 21, 1903.

Officers.—President, John Burton,

Philadelphia, Pa.; Vice-President, C. C. Pollworth, Milwaukee, Wis.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa. Directors.—Alex. Wallace, Emil Buettner, R. Witterstaetter, F. R. Mathison, Robert J. Halliday, Geo. C. Watson, R. F. Tesson.

Papers and Discussions.—A System of Accounts for Greenhouses and Forms for Determining Cost of Production, R. F. Tesson; Modern Methods in Floral Decoration, Alex. McConnell; Violet Culture in the West, G. F. Crabb; Substitutes for Coal and Their Comparative Efficiency, W. R. Beatty; Humorous Side of the Florists' Business, J. D. Carmody.

St. Louis, Mo., August 16, 17, 18, 19, 1904.

Officers.—President, Philip Breitmeyer, Detroit, Mich.; Vice-President, H. Beneke, St. Louis, Mo.; Secretary, Wm. J. Stewart, Boston, Mass.; Treasurer, H. B. Beatty, Oil City, Pa.

Directors.—F. R. Mathison, Robt. J. Halliday, Geo. C. Watson, R. F. Tesson, H. M. Altick, Theo. Wirth.

Papers and Discussions.—Development of American Type of Roses, E. G. Hill; American Grown Bulbs, George Klehm; The Ideal Employee, J. C. Vaughan; Indoor Flowering Plants, J. A. Peterson.

Convention Itineraries

FROM CHICAGO AND DETROIT.

Leave Chicago, 11.00 P. M., Sunday night, August 13, via the Wabash Railroad.

Arrive Detroit, Monday morning, August 14, 7.55 A. M.

Leave Detroit, 12.15 noon of the

Midsummer in Washington



Our illustration is introduced to show those who have apprehensions as to the summer temperature in the convention city that it is not too hot during July or August for persons to

stand and look at a florist's window. This picture was taken between the hours of 1 and 2 P. M., on Tuesday, July 25, in front of the store of A. Gude & Bro., 1214 F street.

same date, via Wabash Railroad, by special train.

Arrive Buffalo, 7.15 P. M., Monday night.

Leave Buffalo, 7.30 P. M., via the Lehigh Valley Railroad.

Arrive Philadelphia, 7.15 A. M.

Leave Philadelphia, 7.30 A. M.

Arrive Washington, 10.30 Tuesday forenoon.

Phil. Hauswirth in charge.

FROM BOSTON.

Leave Boston, Sunday, August 13, via Providence Line. Train to connect with steamer Providence at Providence, R. I., leaves Boston 6.22 P. M. Steamer leaves Fox Point, Providence, at 7.45 P. M. Stops at Newport about 8.45 P. M. Due New York 7 A. M. Monday, whence the party will travel in company with the New York delegation.

W. H. Elliott in charge.

FROM NEW YORK.

The special party will leave New York over the Pennsylvania R. R., at 10.55 A. M., Monday, August 14. Due Philadelphia 1.25 P. M., and Washington 4.40 P. M.

W. F. Sheridan, J. B. Nugent and John Young in charge.

FROM SPRINGFIELD, MASS., AND HARTFORD, CONN.

The Connecticut delegation will take the train which leaves Springfield, Mass., 6.20; Hartford, 7.02; New Haven, 7.58; Stamford, 8.56, Monday evening, the 14th, and will proceed on the midnight train of the Pennsylvania R. R., leaving Deshobres Street, New York, 12.10 and arriving in Washington 7.20 Tuesday morning.

Theodore Wirth, Hartford, in charge.

PRIZES FOR IMMORTELLE FLAG.

Rules and regulations for the Bay-ersdorfer prize of \$25 for the best American flag made of immortelles, tied on toothpicks or otherwise. Braiding will not be admitted in this contest:

1. The entrance fee will be \$5, to pay for space in hall.
2. The flag to be not more than 6 feet, nor less than 5 feet 10 inches in length.
3. The style of flag to be left to the discretion of the competitor.

4. Each exhibit to be in the hands of the Superintendent of Trade Exhibition before 10 P. M., Aug. 14.

5. Each exhibit to be numbered, the number to correspond to a number in a sealed envelope containing the name of the exhibitor.

6. Judges will be appointed by the executive committee of the S. A. F. & O. H.

PETER BISSETT,

Sec. Florists' Club of Washington.

UNCLE SAM'S CONTRIBUTION.

Uncle Sam's contribution to the entertainment of visitors during convention week in Washington, will be many and varied, but among them a series of concerts by some of the military bands stationed around Washington may not be the least enjoyable. The following schedule is announced for convention week, viz.:

Monday, Aug. 14.—U. S. Cavalry Band in the Smithsonian Grounds, 7.30 to 9 P. M.

Tuesday, Aug. 14.—U. S. Engineer Band in Washington Circle, 7.30 to 9 P. M.

Thursday, Aug. 17.—U. S. Cavalry Band in Judiciary Park, 7.30 to 9 P. M.

Friday, Aug. 18.—U. S. Engineer Band in Iowa Circle, 7.30 to 9 P. M.

It is also expected that the world-famous Marine Band will give its regular concerts on Wednesday evening at the Capitol Grounds, and on Saturday at the White House Grounds.

A PHILADELPHIA WELCOME.

At a recent meeting of the Florist's Club of Philadelphia it was, on motion, decided to invite all members of the S. A. F. on their way to the convention to be held at Washington, D. C., who can conveniently do so, to stop off at Philadelphia and call at the Club Rooms, Broad Street, above Spruce, where the glad hand and refreshments will be cordially extended.

EDWIN LONSDALE, Secretary.

BALTIMORE'S PROGRAM.

A large number of Baltimore florists will attend the convention and offer the exhibition drill at Washington on Friday are expected to bring all the S. A. F. visitors and the members of the Washington club to Baltimore, where they will be given a drive and afterwards a steamboat excursion on Chesapeake Bay, under escort of N. F. Flitton, chairman, J. H. Moss, F. C. Bauer, J. J. Perry, C. L. Seybold, Robt. Halliday, Wm. Fraser, R. L. Graham, J. A. Cook, R. Vincent, Jr., and E. A. Seidwitz.

MASSACHUSETTS HORTICULTURAL SOCIETY.

On Saturday, Aug. 5, the exhibition consisted mainly of hardy border flowers, of which superb general displays were made by the Blue Hill Nurseries and the Bay State Nurseries, who won first and second prizes, respectively, and the Harvard Botanic Garden. Perennial phloxes were shown by H. A. Stevens Company and Blue Hill Nurseries. Mrs. L. Towle showed a fine collection of dahlias in the different classes, and Joseph Thorpe, sweet peas. Certificates of merit were awarded to the Blue Hill Nurseries for *Tritionia hybrida* (Montbretia) germanica and *Tritonia hybrida* (Montbretia) George Davidson.

AMERICAN CARNATION SOCIETY.

The Board of Directors will hold a meeting to take up the matter of by-laws, etc., convention week of the S. A. F. at Washington, D. C.

The time for this meeting will be fixed at a preliminary meeting, to be held in Convention Hall, Tuesday, Aug. 15, at 2 P. M. sharp.

(Signed) PETER FISHER,

President.

Attest: ALBERT M. HERR,

Lancaster, Pa., Secretary.

DETROIT FLORISTS' CLUB.

At the meeting of the Detroit Florists' Club on August 2, officers were elected as follows: President, William Dilger, vice-president, James Taylor, J. M. Clemons, secretary, J. F. Sullivan; treasurer, Walter Taepke; librarian, Norman Sullivan.

The date of the August exhibition of the Lenox (Mass.) Horticultural Society has been changed from the 24th to the 15th.

Flower Market Reports

The market the past week has been languid.

Roses are coming in in great quantities; short stock, which predominates, is almost untouched, as the demand is for long stock only. Carnations are scarce and poor, with a very small supply of good trade. The outdoor varieties show the effects of the heavy rains most decidedly, and they, too, are hard to move. Asters of the early varieties are finding their way to the market in great haste and the supply exceeds the demand.

Business conditions the past week were very satisfactory. The supply of carnations is about over, not many to be seen. Medium grade roses can be had in satisfactory quantities and sell well. There are good asters enough to fill all demands and they sell up to expectations.

The market remains about the same as last week. Funeral work is about the only business.

Very little transient trade of any kind. Brides and kaisers are coming in freely and the supply is fully equal to what the market will absorb. Beauties are extra quality considering the season, and as there are a few more growers commencing to ship the new crop, there is plenty stock for all demands. Liberties are also good, but no so plentiful. Some good Sunrise have made their appearance and are a welcome variation.

Roses are much more abundant in the market, although not greatly improved in quality, and prices are lower. Many small buds from young stock come in, and are well sold if they bring fifty cents a hundred. Asters are increasing rapidly in number.

Business conditions recent main unchanged since last report. Asters and roses are almost a glut on the market. Some new stock of Beauties is in and sells fairly well at a good price. *Lilium auratum* and *rubrum* are arriving in large quantities but are moving slowly.

NEWS NOTES.

The Florists' Hall Association of America has paid to its subscribers for losses from hail for the year ending August 1, 1905, the sum of \$19,817.94.

Mr. George B. Wilson complains that his purposes in the proceedings with Mr. Pennock, referred to in our issue of June 17, were not fairly stated. He represents that his only intent in the suit in question was to obtain information that would enable him to ascertain the facts regarding the dealings of his gardener while in his employ, and that the securing of this information from Mr. Pennock and consequent withdrawal of the suit could not be construed as "a virtual confession of the unjustness of the claim." We would be very sorry to misrepresent any one to our readers, even unintentionally, so, after receiving the above explanation, we gladly take opportunity to recall our criticism of Mr. Wilson and thus place his action and motives in proper light.



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Request the American trade to call on them when visiting Europe and to inspect their extensive Nurseries of **HARDY ORNAMENTALS, EVERGREENS, RHODODENDRONS, ROSES, ETC.**, great specially made of **GOLDEN PRIVET**. Preliminary trade list now ready and mailed to applicants by

AUGUST ROLKER & SONS, New York, 31 Barclay St., or P. O. Box 752
The American Agents

PURE CANADA HARD WOOD ASHES

The Best and Most Lasting Fertilizer

Good buyers know where to get good quality. Below is a sample of the orders I am booking.
My Dear Mr. Joynt:

According to our conversation today you may ship me 5 large carloads of ashes to Kenosha, N. Y. I want 3 car loads to spread on 40 acres of land that I intend to sow to rye this Fall, and a car load for our Cemetery. Be sure you send me the Joynt brand. Very truly yours (sgd.) Kense Carpenter, Comptroller.

Write for prices and information to **JOHN JOYNT, Lucknow, Ontario, Canada.**

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Arancarias, Rubbers, Pandanus, Aralias

Dracanas, Aspidistras, Marantas, Crotos

etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters

Growers and Dealers

PERKINS STREET NURSERIES

Rosindale, Boston, Mass.

In writing advertisers, mention Horticulture

STRONG 2 1/2 IN. STOCK FROM BENCH

NEPHROLEPIS

BARROWSII

\$25.00 PER 100

Scottii Ferns..... \$10.00 per 100

See display ad. in HORTICULTURE May 6th

HENRY H. BARROWS & SON

WHITMAN, MASS.

In writing advertisers, mention Horticulture

Horticulture's well-wishers can promote

its prosperity by patronizing the

firms represented in its advertising

columns.

CATTLEYA SCHROEDERAE

THE EASTER CATTLEYA

We take pleasure in announcing to our customers the arrival of the above superb cattleya in perfect condition. Also Cattleya Trianae, C. labata, C. Warneri, C. gigas, C. granulosa, Miltonia Morelana, Boringthorpea fragrans, Laelia anceps and L. autumnalis atro-rubens. Write for prices.

LAGER & HURRELL

Orchid Growers and Importers SUMMIT, N. J.

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ORCHIDS, PALMS BAY TREES, ETC.

JULIUS ROEHR'S CO.
RUTHERFORD, N. J.

In writing advertisers, mention Horticulture

Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England
Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY.

Grow a Few Peonies for Cut Flowers

They stand shipping well. We are able to offer the following sorts to the trade in divisions and strong one year plants.

ORDER EARLY and PLANT EARLY

Our catalogue with full descriptions sent for the asking.

No.	Div.	One Yr.	No.	Div.	One Yr.
3 Achilles.....	\$12.00	\$15.00	312 Mme. Forel		\$60.00
8 Alba sulphurea.....	25.00	40.00	333 Mme. Myssart	\$25.00	
18 Alice de Julvecourt		15.00	406 M. Paillet.....		15.00
82 Charlemagne	25.00	35.00	429 Paganini.....		20.00
126 Delicatissima	50.00		472 Queen Victoria	15.00	20.00
142 Duke of Wellington.....	30.00	40.00	(481) 482 Reine Victoria		20.00
145 Duchesse de Nemours (Guerin) ..	15.00	20.00	492 Rose d'Amour		60.00
173 Festiva	20.00	30.00	498 Rubra Triumphans		25.00
217 Humea Carnea.....	12 50		531 Triomphe du Nord		20.00
174 Festiva-Maxima.....	40.00	50.00	719 Floral Treasure	40.00	50.00
224 Jeanne d'Arc.....	30.00	40.00	729 Golden Harvest.....		30.00
250 La Tulipe.....	40.00	50.00	727 Giganthea.....	60.00	85.00
270 Louis van Houtte.....		20.00	741 Mont Blanc	25.00	40.00
290 Mme. Breon.....		20.00	758 Richardson's Rubra Superba.....	25.00	35.00

Order by number only. Twenty-five of one variety at the hundred rate; 5 per cent off for cash with order. Our stock has been rogued.

Cottage Garden Company, Inc., Queens, Long Island, N. Y.

CYCLAMEN PLANTS Giganteum Strain

Seed taken of only selected flowers and well-built stock. None better.

3-in. \$7.00 per 100, \$65.00 per 1000.

Seed of above strain, new crop, \$5.00 per 1000.

C. WINTERICH, Defiance, Ohio

"The Cyclamen Seedlings arrived to-day in good shape. We are well pleased and are glad to know that by packing properly plants will stand the trip."

Yours truly, PARK FLORAL CO.

San Francisco, Cal., July 12th, 1905.

Asparagus Plumosus Nana Seedlings

From flats ready for 2 1/2 in. pots.....\$12.00 per 1000
Asp. Sprengeri, 2 1/2 in. pots.....\$10.00 per 1000

1 year old \$40.00 per 1000. 50¢ of \$10.00 per 1000
Cash with order, prepaid.

Yalaha Conservatories, Yalaha, Lake Co., Fla.

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of *Armeria excelsa*, *glauca*, *comparita*, and *robusta*.

PALIS and AZALEAS

Write for prices

In writing advertisers, mention Horticulture

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.
Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 57

READ WHAT OUR CUSTOMERS SAY

Philadelphia, Pa., January 17th, 1905.

H. H. BERGER & CO.,
47 Barclay Street, New York.
Gentlemen: You shipped us last August 10,000 Lil. Harrisii. Your price was considerably lower than any one else, but we must say that your stock was equally as good. We forced a large quantity of your stock for Christmas, and did not have enough to fill orders, all our customers stating that they were as fine as we had ever seen.
Yours very truly,
FRANK N. YATES & CO.

We have only One Brand of Lilies "THE BEST"

12	100	1000	12	100	1000
537 in.	.50	3.75 35.00	74.9	.30	7.60 65.00
637	.75	4.50 42.00	9312	2.00	15.00

See our exhibit at Washington.

Send for our Fall List all

CALLA

For 20 years we have supplied the bulk of the crop. SOUND, HEALTHY STOCK.

3x5	.60	4.00 35.00	8x7	1.00	7.00 65.00
4x6	.75	5.50 50.00	7 up	1.50	10.00

FERNS FOR FERN DISHES



Seedlings from flats.....100 1000
1.50 15.00
Best assortment of Aspidium, Cyrtomium, Oxytropis, all kinds, Pteris, etc. Prices for seedlings to suit dealer.

2 1/2 in. pots.....500 25.00

Established 1878.

Do not fail to inspect our exhibition of

GLADIOLUS BLOOMS

at the S. A. F. Convention, Aug. 15-18, also at the Boston Show on Aug. 19.

JOHN LEWIS CHILDS, Floral Park, N. Y.

Passaic, August 3d, 1905.
Regarding the 79 Lil. Longifolium bought of you last season, would like to say something very good, for they deserve it. Nine bulbs out of the entire lot (12000) was all we could count amongst the "Lost and Missing." Likewise were the other bulbs and plants the most satisfactory we ever handled.

HANSEN & LUNSTED.

PAPERWHITE

True Grandifl.	12	100	1000
13 inch up .....	.29	1.10	9.00
15 inch, Mammoth.....	.35	1.25	11.00

FREESIAS FINEST WHITE

1/2 to 3 in. diam.....	15	75	6.00
Mammoth.....	.20	1.10	8.00

French and Dutch Bulbs

LIL. CANDIDUM

Thick petalled northern grown. BEST RESULTS.

1st size.....	12	140	1000
Mammoth.....	.65	1.50	12.00
.....	.75	5.00	45.00

FRENCH STOCK

1st size.....	.60	1.00	38.00
Mammoth.....	.65	1.50	42.00

BAMBOO STAKES

Japan—strong, durable

Stake your Lilies, Roses, Chrysms, Dahlias. To clear out—need room:

100	1000	20.00
5.00	.....	75 5.00 30.00

Address

H. H. BERGER & CO.

47 BARCLAY ST. NEW YORK

PAPER WHITE GRANDIFLORA

OF THE VERY BEST QUALITY

SEND US YOUR ORDERS

WE CAN ALSO SUPPLY YOU WITH STRICTLY FIRST CLASS

ROMAN HYACINTHS
JAPAN LONGIFLORUM
CALLAS

LILIAM HARRISII
MULTIFLORUM
CANDIDUMS

FREESIAS
GIGANTEUM

DUTCH BULBS
SPECIOSUMS

COLD STORAGE VALLEY PIPS, ETC.

WRITE FOR PRICES

RALPH M. WARD & CO.

WHOLESALE BULB MERCHANTS

12 W. B'WAY, NEW YORK

BULBS

DE NIJS BROTHERS

WHOLESALE
BULB GROWERS

HILLEGOM, HOLLAND.

Headquarters for High Class

Hyacinths, Tulips,

Crocuses, Daffodils, Fancy

Narcissi and Peonies

Price List Free on Application.

STRICTLY WHOLESALE.

PEONIES

WHITE, generally called Queen Victoria has been known to keep 6 weeks in cold storage, \$9.00 per 100; \$80.00 per 1000. FRAGRANT, the full grower and bloom producer \$6.00 per 100; \$50.00 per 1000. For prices on other varieties including Fesha Maxima write

GILBERT H. WILD,

Sarcoxie, Mo.

PÆONIES

Unrivaled collection of

American Seedlings and best Standard Varieties

Catalogue will interest you. Send for it

GEORGE HOLLIS

South Weymouth, Mass.

Lilies, Japanese Plants

BAMBOO STAKES

SUZUKI & IIDA

31 Barclay Street, New York

In writing advertisers, mention Horticulture

CELERY PLANTS

Ready July 10th, sharp. 25,000 Early Giant Pascal, A J Strain, boost in the country. Transplanted, \$1.50 per 1000; from the seed now in the field, \$3.00 per 1000. No better stock for private or commercial growers can be found.

COOLIDGE BROS., So. Sudbury, Mass.

The HARDY ANNUAL of the CENTURY

NICOTIANA SANDERAE

Seeds in original packets, at 75c. per packet, from seedmen throughout the United States.

Wholesale Agents for the United States
H. A. DREER, Philadelphia, Pa.
J. M. THORNBURN & CO., Portland St., N. Y.
VAUGHAN'S SEED STORE, Chicago and N. Y.

In writing advertisers, mention Horticulture

.. CALLA BULBS ..

READY AUGUST 1st

1 to 1 1-2 in. diameter, \$4.00 per 100; \$30.00 per 1000
1 1-2 to 2 in. diameter, 5.00 per 100; 40.00 per 1000
2 to 2 1-2 in. diameter, 6.00 per 100; 50.00 per 1000

F. O. B. Niles, California.

CALIFORNIA NURSERY CO., Niles, Cal.

In writing advertisers, mention Horticulture

CALLA BULBS

IN BOXES WAITING YOUR ORDER

25 cases, 3 inches diameter, 250 bulbs in case, \$17.50 per case
40 " 2 1/2 " " " " 15.00 " "
62 " 2 " " " " 1.00 " "
30 " 1 1/2 " " " " 8.00 "

ELLIOTT'S LITTLE GEM Calla Dormant Bulbs, \$1.20 per 100; \$10.00 per 1000

ASPARAGUS PL. NANUS, Strong, 3-in., \$5.00 per 1000

Freight prepaid on above prices. CASH

A. MITTING, 17 to 23 KENNAN ST., Santa Cruz, Cal.

In writing advertisers, mention Horticulture

New Crop Seed

of my well-known

Christmas Sweet Peas

ZVOLANEK'S CHRISTMAS PINK; FLORENCE DENZER, pure white, \$2.00 per lb.; 75c. per 1/4 lb. Also CHRISTMAS RED and CHRISTMAS WHITE, new black seeded, 2 oz. 75c. mailed free.

All these peas, if sown the first days in September, will bloom for Christmas and all winter. This seed is sold only in my original packets, with cultural directions. Not less than 75c. worth sold. Orders booked in rotation.

ANT. C. ZVOLANEK, The Originator
BOUND BROOK, N. J.

In writing advertisers, mention Horticulture

Daisies, Daisies and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

FLETCHER of ARMONK, L.
Stall 1, Boston Flower Market, Park St.

Forest Tree Seeds and Seedlings

Catalpa Speciosa and Black Locust in large quantities, Red Bud, Maple, Sweet Chestnut River Birch, Ozier, Dogwood, Persimmon, Elm, Ash, Sweet Gum, Tulip, Poplar, Russian Mulberry, Sycamore and Black Walnut Also Wistaria, Amelopsis, Yucca and many other seedlings. Tree and Shrub seeds in large variety. Send for Trade List.

Forest Nursery & Seed Co.

McMinnville, Tenn., R. D. No. 2.

Advertising well placed hits the nail on the head every time. Let us help you to make business good.

Gerbera Jamesoni

I have a limited quantity of plants of this beautiful scarce daisy to dispose of, from 3 and 4 inch pots, which I offer at \$3.00 per doz.; \$20.00 per 100

CHARLES H. TOITY

MADISON, N. J.

HANNAH HOBART

**The Pride of
California.....**

**THE GRAND PRIZE WINNER IN COMPETITION WITH THE LATEST AND VERY
BEST PRODUCTS IN CARNATIONS, EAST OR WEST, FOR THE LAST EIGHT YEARS.**

Mr. John A. Edmer, of the Elm, Washington, wrote, after his visit to our nurseries in February 1, 1902, an article which appeared in the AMERICAN FLORIST of February 15, as follows:

"The Hannah Hobart is really a remarkable flower, never less than four inches, and frequently four and one-half inches across. In color it is a shade deeper than Lawson, but the petal arrangement is quite different, in this respect it resembles the 'El Indio', but it carries a different color is different. I saw two large houses of it at Sievers' and the sight is one I am glad to remember. The colors of blooms are not a poor one to the lot, and everyone the exact counterpart of the other; no bursted calyxes, but every flower supported on a twenty-four inch stem, and standing up like soldiers. There is certainly no carnation of its color that can equal it."

The above is a truthful statement of facts by a very competent gentleman, and it need not be said that the simple assertion that the flowering of this magnificent variety have been sold wholesale as high as \$1.50 per dozen and none less than \$1.00 per dozen, up to date, should be enough to convince anybody of its intrinsic value.

The constant inquiry by every one who has seen the plants in flower is "When will the Hannah Hobart be for sale?" This led us at last to the conclusion to distribute the same next year, and we are ready to look orders from now on for delivery beginning January 1, 1906. Send your orders in early as they will be filled strictly in rotation.

PRICE, \$3.00 per 12; \$15.00 per 100; \$120.00 per 1000.

JOHN H. SIEVERS & CO., 1251 Chestnut St., SAN FRANCISCO, CAL.

CARNATION PLANTS

FIELD GROWN

STRONG, HEALTHY PLANTS NOW READY

ENCHANTRESS.....	\$8.00 per 100	\$75.00 per 1000
LAWSON.....	5.00 "	45.00 "
PROSPERITY.....	5.00 "	45.00 "
ROSEVELT.....	5.00 "	45.00 "
GOLDEN BEAUTY.....	6.00 "	50.00 "
BOSTON MARKET.....	5.00 "	45.00 "
FAIR MAID.....	6.00 "	50.00 "
MRS. M. A. PATTEN.....	8.00 "	75.00 "
HARRY PENN.....	7.00 "	65.00 "
THE QUEEN.....	6.00 "	50.00 "
EL DORADO.....	5.00 "	45.00 "

ARTHUR T. BODDINGTON

342 West 14th Street, NEW YORK

In writing advertisers, mention Horticulture

CARNATION PLANTS

Strong, bushy, field grown plants, well rooted for delivery on and after August 1st, of the following tried and tested varieties:

**Boston Market
Queen
Enchantress
Queen Louise**

**Bradt
Prosperity
Indianapolis**

**Floriana
Flamingo
Lawson
Vesper**

WRITE FOR PRICES

Our plants are from the grounds of the largest and most up-to-date growers.

SAMUEL S. PENNOCK

The Wholesale Florist of
PHILADELPHIA

In writing advertisers, mention Horticulture

ROSES

	7 1/2 inch	1 1/2 inch
	Per 100 Per 1000	Per 100 Per 1000
Chatenay,	\$4.00 \$30.00	\$5.00 \$45.00
Uncle John,	4.00 35.00	5.00 45.00
Golden Gates,	2.50 20.00	4.50 40.00
Maids,	3.50 30.00	5.00 45.00

Per 100 Per 1000 1 1/2 inch Per 100 Per 1000
Stevia R. C., \$1.50 \$12.50 \$2.50 \$22.50

POEHLMANN BROS. CO.

MORTON GROVE, ILL.

In writing advertisers, mention Horticulture

If you offer the right goods in the right way in these columns, you will not lack for customers.

ROSES

Fine large plants in 3 inch pots, just the thing for late benching. Good value guaranteed

BRIDE, BRIDESMAID, IVORY, AMERICAN BEAUTY, PERLE. Fine 3 inch stock, \$5.00 per 100; \$15.00 per 1000; 25 at 100 rate; 250 at 1000 rate. Cash with order or satisfactory references. These Plants were propagated from Healthy Grafted stock. No club root.

Baur Floral Co., Erie, Pa.

FIELD GROWN CARNATIONS

SELECTED STOCK

	100	1,000
Mrs. M. A. Patten	8.00	70.00
Nelson Fisher	8.00	70.00
Flamingo	8.00	70.00
D. Whitney	6.00	50.00

BACKER & CO.

BILLERICA, MASS.

Field Grown Plants

"FIANCEE"

\$15.00 per 100 \$125 per 1000

Chicago Carnation Co.

JOLIET, ILL.

In writing advertisers, mention Horticulture

DAHLIAS

ONE HUNDRED AND THIRTY ACRES

Roots and blooms in any quantity

L. K. PEACOCK, Inc.

ATCO, N. J.

In writing advertisers, mention Horticulture

STERILIZED SHEEP MANURE

**\$20.00 a TON
100 Lb BAC \$1.25**

Wm. ELLIOTT & SONS

201 FULTON ST., NEW YORK

My Maryland

pure white

JESSICA

red and white variegated

Two great carnations for 1906.
**\$2.50 per doz., \$12 per 100
\$100 per 1000**

Are you shrewd in business? Yes? Then write us immediately concerning these two grand carnations, or see us at the Washington Convention.

The E. C. HILL CO.

RICHMOND, IND.

The H. WEBER & SONS CO.

OAKLAND, MD.

In writing advertisers, mention Horticulture

S. S. SKIDELSKY

**824 No. 24th Street
PHILADELPHIA**

CORRESPONDENCE SOLICITED

In writing advertisers, mention Horticulture

ROBT. C. PYE

Carnation Grower

NYACK, N. Y.

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BEAUTIES KAIZERINS SUNRISE

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

1217 Arch St., - PHILADELPHIA

After July 1st Store Open 7 A.M. to 6 P.M.

In writing advertisers, mention Horticulture

American **BEAUTIES**

AND

QUEEN OF EDGELY'S

WELCH BROS.

City Hall Cut-Flower Market

15 PROVINCE ST., BOSTON

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Av., CHICAGO

In writing advertisers, mention Horticulture

Weiland & Risch

Leading Western Growers and Shippers of

Cut Flowers

59 Wabash Ave., - CHICAGO

Long Distance Phone Central 879.

In writing advertisers, mention Horticulture

VAUGHAN & SPERRY

Wholesale

Commission Florists

If you wish to buy or sell, see them first

PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

WILLIAM J. BAKER

WHOLESALE
FLORISTS

1432 So. Penn Sq.,
PHILA.

FINE ASTERS

In writing advertisers, mention Horticulture

Summer Beauties and Kaizerins RIBBONS AND SUPPLIES

Samuel S. Pennock

The WHOLESALE
FLORIST OF

PHILA.

Commencing, June 26th will close at 6 P. M.

In writing advertisers, mention Horticulture

WHOLESALE FLOWER MARKETS TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Aug. 6	ST. LOUIS Aug. 7	PHILA. Aug. 8	BOSTON Aug. 10
ROSES				
Am. Beauty, Fan, & Sp.	30.00	4.00	10.00	12.00
" Extra.	20.00	2.00	7.00	8.00
" No. 1.	10.00	1.00	3.00	4.00
" Lower grades.	5.00	1.00	2.00	3.00
Bride & Maid—Fan & Sp.	10.00	1.00	3.00	4.00
" Extra.	3.00	1.00	2.00	3.00
No. 1 and Lower 21.	1.00	1.00	1.00	1.00
Liberty, Fancy & Special.	5.00	1.00	2.00	3.00
" Extra.	3.00	1.00	2.00	3.00
" No. 1.	2.00	1.00	1.00	1.00
Carnot and Kaizerins.	5.00	1.00	2.00	3.00
Golden Gate, Ivory, Chateau.	1.00	1.00	1.00	1.00
CARNATIONS				
Fancy Class.	2.00	3.00	1.00	1.00
General Class.	.75	1.50	1.00	1.00
ORCHIDS				
Cattleya.	50.00	6.00	50.00	60.00
BULBOUS				
Lilies.	15.00	15.00	15.00	15.00
Lily of the Valley.	3.00	4.00	3.00	4.00
MISCELLANEOUS				
Asters.	.75	1.50	1.00	1.00
Mignonette.	1.00	1.00	1.00	1.00
Sweet Peas.	1.00	1.00	1.00	1.00
Adiantum Cuneatum.	1.00	7.00	1.00	1.00
" Crowned.	1.00	1.00	1.00	1.00
Forseya.	1.00	1.00	1.00	1.00
Smilax.	1.00	1.00	1.00	1.00
Asparagus Plumosus: string.	1.00	1.00	1.00	1.00
" bunches.	2.00	2.00	2.00	2.00
" Sprenger.	1.00	1.00	1.00	1.00

PHILADELPHIA CUT FLOWER CO.

1516-1518 SANSON STREET, PHILADELPHIA

KAISERIN, CARNATIONS, SWEET PEAS

Store Closes at 6 P. M. from June 19th to Sept. 16th Daily except Saturday at 1 P. M.

In writing advertisers, mention Horticulture

WEITOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.

In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage

E. F. WINTERSON CO. 45-47-49 Wabash
CHICAGO

CATALOGUE FREE

PETER REINBERG

WHOLESALE

CUT FLOWERS

51 Wabash Ave., Chicago, Ill.

In writing advertisers, mention Horticulture

TO BUYERS

Patronize our advertisers, they will treat you right

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th St., New York

In writing advertisers, mention Horticulture

ALEX. McCONNELL

516 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

Florists Out of Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

In writing advertisers, mention Horticulture

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

In writing advertisers, mention Horticulture

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

FRED C. WEBER FLORIST

4326-28 OLIVE STREET, ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 667

"KORAL" SCRIPT LETTERS



FOR FLORISTS' USE 3 1-2 CENTS EACH

This Company has in stock at all times, or can make to order at short notice, all the Script words in English or German Text, Society Emblems; also various Novelties, such as Christmas and Easter Bells in Red White, Wreaths, Ice Cups and Bon Bon Baskets, Christmas Cards, etc.

RAINBOW SILK

Christmas

BELLS

6 INCHES
\$6 per Doz.

9 INCHES
\$12 per Doz.



THE KORAL MFG. CO. (Incorporated)

Manufacturers of Emblems, Badges, Etc.

26 HAWLEY STREET, BOSTON, MASS.

BOSTON, MASS.

Send for Samples, Circular and Discounts to the Trade.

A. Gude & Bro.

FLORISTS

1214 F ST., WASHINGTON, D. C.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

WILLIAM J. BOAS & CO. MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples
In writing advertisers, mention Horticulture

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

12 Centers, 12 or 24 in. centers each.
Sent by express, 100 letters for \$1.00 and 500 letters for \$4.00.
N. F. McCARTHY, Manager
84 Hawley Street, BOSTON, MASS.

FRANK MILLANG

Wholesale Commission Florist

CROGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 222 Madison Sq. Open 6 A. M. to 5 P. M.
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extra	6.00	to 12.00	6.00	to 12.00					
No. 1	3.00	to 5.00	3.00	to 5.00					
Lower grades	.50	to 2.00	.50	to 2.00					
Bride & Maid, fan and sp.	4.00	to 6.00	4.00	to 6.00					
extra	2.00	to 3.00	2.00	to 3.00					
No. 1	1.00	to 1.50	1.00	to 1.50					
Lower grades	.35	to .50	.35	to .50					
Liberty, fan and sp.	10.00	to 12.00	10.00	to 12.00					
extra	4.00	to 6.00	4.00	to 6.00					
No. 1	2.00	to 3.00	2.00	to 3.00					
Lower grades	.50	to 1.00	.50	to 1.00					
Golden Gate, best	1.00	to 4.00	1.00	to 4.00					
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Fancy Class	to .50	to .50					
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Farleyense	to	to ..					
Smilax	to	to ..					
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List of Advertisers

Page	Page
Aschmann Co. 173	Michigan Material Co. 182
Baker Wm. J. 176	Metcalfe N. J. 179
Bell Bros. W. 177	McCall Ale. 177
Barrows H. H. & Son 172	McCall Charles Wm. 178
Baur Florist Co. 175	McCall J. C. 178
Boston Florist Letter Co. 174	McCall H. L. 176
Berger H. H. & Co. 173	McCallum Cut Flower Co. 176
Bos. W. J. 177	Milling Charles 179
Bos. W. J. & Co. 177	Munroe Frank 178
Backer & Co. 175	Munroe J. C. 174
Bonnet Bros. 175	Moninger J. C. 183
Boston Florist Letter Co. 174	Murdock J. B. 179
Breck Joseph & Sons 180	Nissen Leo Co. 176
Breitmeier's J. Sons 175	Peacock L. K. 175
Bradling J. A. 179	Peacock Samuel S. 175
Burnham Hitchings 184	Peterson John 179
Burpee W. A. & Co. 150	Phil. Cut Flower Co. 176
California Nursery Co. 174	Pietson A. N. 172
Chicago House Wrecking Co. 182	Pietson J. C. 177
Chicago & Carbon Co. 175	Putnam Cut Flower Co. 176
Chil's Jan L. A. 174	Raynor Wm. J. 178
Chas. & Boddington 175	Rice & Keller 179
Conard & Jones Co. 175	Reid Edwin 176
Cooke G. H. 174	Reinberg Peter 176
Coolidge Bros. 174	Robinson H. M. & Co. 175
Cottage Gardens 175	Rodriguez John 174
DeNijs Bros. 174	Rodriguez August 174
Dinger Wm. 175	Saunders Son Co. 172
Dreier H. A. 174	Schall Lumber Co. 182
Dysart R. J. 175	Scollay John A. 182
Elliot Wm. & Sons 175	Scott John 175
Esler J. G. 175	Sharp Partridge & Co. 172
Ernest W. H. 175	Sheridan W. F. 178
Farquhar R. & J. N. Co. 175	Siebers & Sons 175
Fennell J. S. 173	Sievers J. H. & Co. 175
Fletcher F. W. 174	Siggett H. G. 172
Foley M. C. 172	Situations & Wants 172
Ford Bros. 175	Sheldale S. S. 175
Forest Nursery & Seed Co. 174	Stahord N. Co. 171
Fromow W. & Sons 172	Stearns A. T. Lumber Co. 182
Ghermley Wm. 178	Sutherland Geo. A. Co. 179
Grey T. J. & Co. 175	Suzuki & Ida. 174
Gurie A. & Bros. 177	Sylvester H. B. 183
Gurney Harmer Mfg. Co. 181	Thorburn J. M. & Co. 174
Gutman Alex. J. 175	Totty Chas. H. 174
Hall Bros. 175	Trenclay & Schenck 179
Hammond J. A. 175	Vaughan and Sons 176
Heller & Co. 175	Vaughan's Seed Store 174
Hews A. H. & Co. 175	Wahner R. 171
Hill J. G. Co. 175	Walsh M. H. 171
Herenden Mfg. Co. 175	Ward Ralph M. Co. 174
Hippard E. 175	Webb H. S. 177
Hollis Geo. 171	Webb H. S. Sons 175
Holly Castle Co. 172	Weber Bros. 175
Horan E. C. 175	Weiland & Risch 175
Hunt E. H. 175	Weigelt & Co. 175
Johnson Heating Co. 175	Wells H. S. 175
Joynt John 174	Widdie J. 174
Kasting W. F. 171	Winter H. E. 173
King Cons Co. 172	Winter H. E. F. 176
Kohler J. 172	Yalaha Conservatories 175
Korol M. C. Co. 172	Young & Nugent 175
Krick W. C. Co. 172	Young Thos. 177
Lager & Burck 174	Zurbrugg Bros. 180
Lang Julius 175	Zurbrugg Ant. Co. 175
Leuthy A. & Co. 172	

Buyers' Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

For page see List of Advertisers.

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S. S. Pennock, Philadelphia.

H. Weber & Sons Co., Oakland, Md.

My Maryland, Jessica.

The E. G. Hill Co., Richmond, Ind.

My Maryland, Jessica.

Yalaha Conservatories, 175 Young & Nugent, 175 Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

Young Thos., 177 Zurbrugg Bros., 180 Zurbrugg Ant. Co., 175

FERNS.

A. Leuthy & Co., Rosindale, Mass.

H. H. Barrows & Sons, Whitman, Mass. Nephrolepis Barrowsii.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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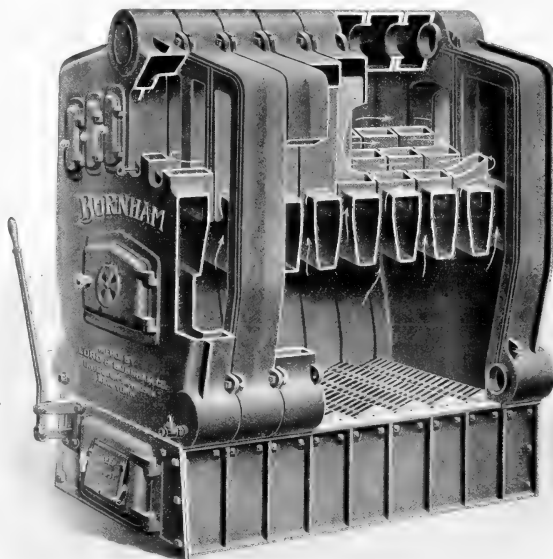
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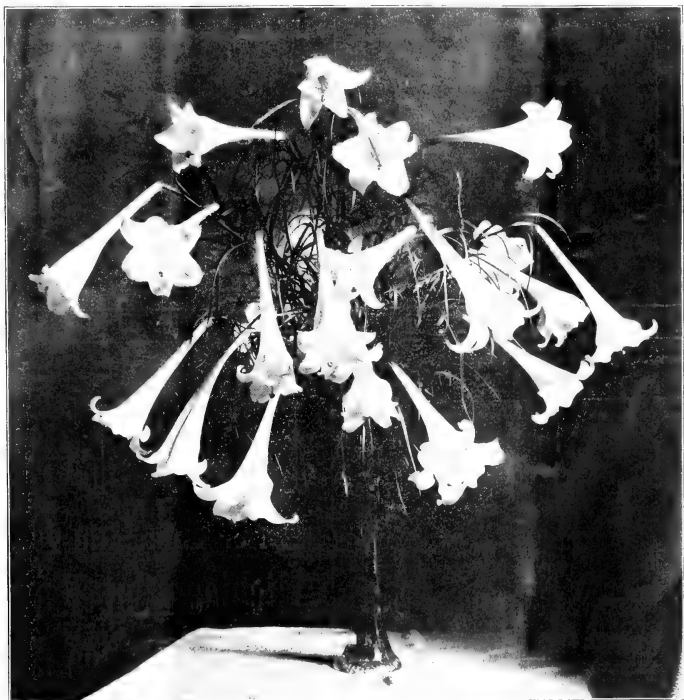
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HORTICULTURE

Vol. II.

AUGUST 19, 1905

No. 8



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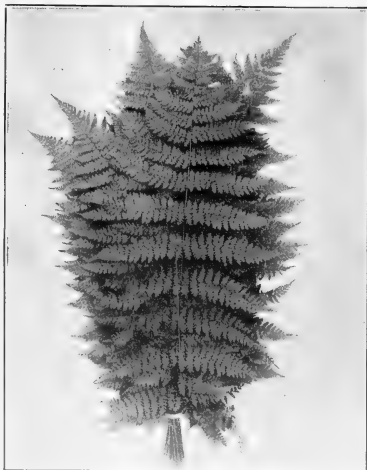
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HORTICULTURE

VOL II

AUGUST 19, 1905

NO. 8

PUBLISHED WEEKLY BY

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11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	PAGE		PAGE
FRONTISPIECE—A New Decorative Effect with Lilies		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
EDUCATION IN HORTICULTURE AT MASSACHUSETTS AGRICULTURAL COLLEGE—Illustrated—Waugh	191	New Haven County (Conn.) Horticultural Society	205
ROSES—Robt. T. McGorum	192	Joint Show in San Francisco	205
A GOOD FERTILIZER—Oscar Hay	192	Massachusetts Horticultural Society	205
VARIETIES OF NICOTIANA SANDERAE—Illustrated—A. Dimmock	193	St. Louis Flower Show	206
VIOLET DISEASES—R. L. Adams	193	Buffalo Florists' Club	206
EDITORIAL	194	North Shore Horticultural Society	206
SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS		EARLY HISTORY OF INSECTICIDES—C. N. Ruediger	206
The Proceedings in Washington	196	CUT FLOWER MARKET REPORTS	
President's Address	196	Boston, Buffalo, Louisville, New York, Philadelphia	209
Treasurer's Report	200	GREENHOUSES BUILDING OR PROJECTED	214
Election of Officers for 1906	202	SEED TRADE	214
Judges' Report	202	MISCELLANEOUS	
Department of Agriculture Building at Washington	202	After Adjournment	195
THE IDEAL EMPLOYER—First, Second and Third Prize Essays	203	What They Say of Us	195
NEWS OF THE CLUBS AND SOCIETIES		A New Decorative Effect With Lilies	195
Edwin Lonsdale—Portrait	202	Personals	195
Canadian Horticultural Association	205	Vacationists Returning	195
Newport Horticultural Society	205	Bribing Business Employes in Germany	195
New Jersey Floricultural Society	205	News Notes	195
Nassau County (N. Y.) Horticultural Society	205	Obituary	195
		Notes From the "Twin Cities"	209
		Business Changes	209
		Catalogues Received	209
		Plant Carrying Device—Illustrated—Thomas White	214
		List of Patents	214

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Education in Horticulture at Massachusetts Agricultural College

No one nowadays doubts the value of education. Every one believes it is desirable to have as much as he can get. The great questions are how to get it and what methods of education are best.

Horticultural education is comparatively a new line, at least in America. Being new, we might expect to find the methods somewhat unsettled; and it would be no great surprise if the results of horticultural education were not so good as the results of a theological education, for instance, which has been much longer practiced in this country. It certainly is true, however, that horticultural education has made great progress in recent years. The methods have been very much improved, and I am sure the results are more satisfactory to everyone than they used to be.

The larger part of such work is now done in the State agricultural colleges, and, in considering this general subject, we naturally turn first to them. Some of these colleges have been designed and managed with the purpose of giving a general education; perhaps the majority of them have had in view a general education with specialization in the various lines of agriculture. Thus in all these colleges horticulture has been only one of many subjects, and it has had to compete with such topics as agriculture, dairying, engineering, general science, and sometimes the classics. This competition has had many advantages, but it has also had obvious drawbacks. It has greatly complicated matters. It would have been much easier to develop a purely horticultural college by itself, quite separate from all these conflicting interests. That is what has usually been done in Germany, and to some extent in England and Scotland. I think we shall come to that presently in America, but for very different reasons and from very different points of view.

At the present time the agricultural colleges give very fair opportunities for a horticultural education. Some of them give very excellent opportunities, in my opinion, but there is still a great room for improvement. One fundamentally important point, which the public largely fails to grasp, is that the primary object of these colleges is education rather than horticulture. Under present circumstances, it is more important that he should be taught horticulture. There is not space here to discuss this matter, but it is a point of vital consequence. If we could devote the entire four years of the college course to actual manual practice, properly systemized and thoroughly carried out, our graduates would be much more efficient in growing glxinias, lettuce, or strawberries, than they are now, but they would not be so well educated; that is, so well developed mentally.

The great progress which has been made in horticultural education during the last ten years has been chiefly in the line of increasing the educative value of the horticultural courses. It is my firm conviction that a



course in floriculture, or in pomology, or in landscape gardening, will develop a student mentally quite as much as a course in astronomy, civics, Greek, or Tagalog; but in order to do so, it must be as well organized and as well taught. The trouble has been in years past that the teachers of Greek knew how to teach their subject so much better than we knew how to teach horticulture that we could not compete with them, in spite of the many natural advantages of our subject. But just as soon as we learn how to teach pomology, for instance, in a thoroughly effective way, that subject can be substituted for Greek or ethnology in the college course. It then gives the same results from the point of view of education, because it develops the student's mind, and it is very much better from our point of view, because horticulture has a more practical use to the student than the subjects which it has displaced.

Any one who has carefully examined the course given in the agricultural colleges will be forcibly struck by the fact that such technical courses as those in floriculture, landscape gardening, market gardening, fruit growing, etc., have been very greatly increased in recent years. They have been given more time, they have been put in a better position in the college course, and are much better taught. A great deal more attention is given now than formerly to actual practice, or to the teaching of purely technical matters. At some future time I may be able to explain more in detail how some of these courses are carried out.

A certain amount of work along horticultural lines is done in all the agricultural colleges. Some of them give special attention to horticulture, as for instance the New Hampshire State College and the Massachusetts Agricultural College. As horticultural interests are so prominent in Massachusetts, it is a natural necessity that special attention should be given to them. We are now giving the following courses to those students who follow the regular work covering a period of four years:

A. (Required.) Propagation and pruning of plants.

Sophomore year, three hours a week, one semester. Text-books, lectures and laboratory.

B. (Required.) Pomology, systematic, practical and commercial. Text-books, lectures and laboratory. Junior year, five hours a week, two semesters.

C. (Required in certain courses, elective in others.) Elementary landscape gardening. Text-book with draughting-room and field exercises. Junior year, three hours a week, one semester.

D. (Required in horticulture course, elective in others.) Market gardening. Text-book, lectures and field work. Junior year, five hours a week, one semester.

E. (Elective.) Plant breeding. Lectures and laboratory. Senior year, four hours a week.

F. (Elective.) General horticultural practice, with individual problems. Lectures, laboratory and field work. Senior year, six hours a week.

This covers the regular work in horticulture. In floriculture special work is provided for the entire senior year. This is taken by all who elect it. In landscape gardening special work is provided for two years, all of which is elective. There is also some work done in forestry.

It must be remembered that many of the other sub-

jects taught in the regular college course bear very directly on horticulture, though they are not mentioned in the foregoing outline. Such subjects are chemistry, entomology, botany, and certain portions of agriculture dealing with soils and fertilizers, drainage, etc. Many of these are taught with special reference to the needs of the horticulturist.

Thus far I have been speaking exclusively of the course of study itself. It will be readily understood that there is much else in the college besides the course of study. Any one can provide a fine-looking curriculum on paper, but it is quite a different matter to supply the facilities for carrying out the instruction in horticulture. The Massachusetts Agricultural College has a specially good equipment of this sort, but if I were to describe that in any adequate way, it would require another article.

Roses

CUTTING FROM YOUNG STOCK OF BRIDE AND BRIDE-MAID

There seems to be a great diversity of opinion as to the proper time in which to begin to take the first crop or even to cut anything from the young plants. I call to mind several growers who pinch off from two to three crops of buds in order to have big plants for the following winter. Leaving out the monetary value of what has been pinched off I find it a bad practice, as it induces a soft growth and brings wood from unripened eyes which is of no value for flowering, and whatever flowers do come are usually short-stemmed or the eyes form blind wood. It is from the latter that we get red spider, and many of our rose diseases, as they have to be bunched so as to exclude air into all parts of the plant, and here is where the little red fellow gets in his best work and if they do get a hard syringing they dry out slowly, remaining, in some cases, wet all night in the heart of the plant. A house of big plants certainly looks very nice, but, always try to discourage any attempt at such.

We always take the first crop of flowers that come on the plants, cutting back to good eyes, and have followed this up for years. This may look like robbing the plants of their proper amount of wood for winter, but I have found that in doing so we get strong wood in the second crop, and by forcing the sap back the dormant eyes are induced to break just above the graft as they otherwise wouldn't, and it is from here we get our finest flowers.

Visitors here usually remark that the plants are more dwarf than in other places; the above is the reason. Another advantage is that when pruning the following year the plants can be pruned lower and the wood from the bottom breaks have well-developed eyes low down which begin to swell as soon as they get the water; then we get the high grade stems which are so much desired.

A Good Fertilizer

Editor Horticulture:—I notice that Mr. Oscar Hay offers to advise the use and can give the constituency of his special fertilizer for carnations and other plants. I, for one, would be grateful for his response, through Horticulture. E. R.

Nourishment being one of the most important factors in plant growing, I, like many other gardeners, have been experimenting with various substances and lately have been using a fertilizer, sold under the name of Plant Food. That seems to be more effectual and, in case of over doing it, less harmful than others. It seems to contain all the necessary chemicals in proper percentage. For roses I put fifty pounds to the cord in the soil about two weeks previous to filling the benches. This is a small quantity but I do not believe in making the soil too rich at the start. When the roots begin to run out into the soil I put on ten pounds to one hundred and fifty square feet, mixing it in and pressing firm all over. I don't use it again for some time, or until the plants begin to throw strong shoots and good flowers appear, when I start in with six to ten pounds to one hundred square feet applied every ten days as long as the crop of flowers lasts; after which I again stop stimulating until new growths appear. For weak plants a little sprinkling of the fertilizer given every week will soon make them strong and vigorous.

For chrysanthemums, palms and other plants I use the fertilizer in liquid form. Carnations I treat in the same manner as the roses. But better to have not given them quite as much nor so often. The above mentioned preparation is excellent for mixing in the soil for potting, and I have also tried it on tomatoes under glass with great success.

Varieties of *Nicotiana Sanderae*

Herewith appears a photograph of partial group of Sander & Sons' exhibit of the varieties of *Nicotiana Sanderae*, which obtained a Gold Medal of the Royal Horticultural Society at the recent Temple Show in London, and which has since received several awards at the provincial and continental exhibitions in Europe. Varieties varying from the purest white to intense crimson and also blue were exhibited. The pleasing combination of coloring and wealth of flower, together with an abundance of foliage at the base of the group, created universal admiration from the many visitors.

A. Sander & Sons



Violet Diseases

1. SPOT DISEASE, LEAF SPOT, LEAF RUST, OR BLIGHT. (*ALTERNARIA VIOLEAE*)

The spot disease caused by *Alternaria* is the worst pest attacking the violet, causing ninety-five per cent. of all the damage from leaf spots. It attacks the plant at any stage of its growth, from the cuttings just put in, to the mature plant in full bloom, particularly those plants making a soft, succulent growth. It shows as "small, yellowish definite, usually circular spots, resembling the bites or stings of insects and varying in size from the point of a pin to the lead of a blunt lead pencil." This point of infection is surrounded by a narrow, blackish band. In a few days this bleaches to a yellowish or grayish white. When many of the spots occur they coalesce and irregular blotches result.

Spores are borne in chains which appear as dark spots in the decayed portion.

Damp, warm, cloudy weather, hot, dry days followed by moist, cool nights, such as occur in August or September, a watery growth, or poor watering and ventilating give the fungus a fine chance to develop and spread.

Treatment. Fungicides are of little use. The plants must be kept clean and in fine, healthy condition. Take cuttings from stocky, vigorous plants, and use the greatest care in ventilating, watering, and firing. Keep water and dew off the leaves. Kill the insects. Pick off and burn every affected leaf as soon as it is seen.

2. WILT, STEM ROT, ROOT ROT. (*THIELAVIA BASTI-COLA*)

This disease is second in importance only to the spot. It is confined mostly to stems, although sometimes attacking the roots. The fungus generally gains admittance in the cutting bed, and, as it works very slowly, the plant may root and grow for several months before succumbing to its ravages. The disease lives in the tissues often completely girdling the stem, thus shutting off the supplies. It is capable of living on bits

of organic matter in the soil, hence the cutting-bed should be composed of clean sand.

Treatment. Examine all plants before setting out and destroy any showing of slimy, rotten interior. Take cuttings from new growth, for divisions of the old growth will contain the disease.

3. SCALD OR EDGE BURN

This is not a fungus disease, but a physiological disorder. It is characterized by the margins of the leaves turning yellow, and later a papery white.

This is of little account except that it serves as a foothold for other diseases, and indicates a lack of vigor on the part of the plant.

Strong liquid manures, both organic and commercial, cold, damp situations, rapid evaporation from the leaves uncompensated in the soil, cold and heavy soils, and, in short, anything not ideal will bring it on.

Treatment. Prevention.

4. CROWN ROT

Crown rot is a disease that converts the crowns of the plants into a slimy mass. It is generally brought on when the crowns are kept wet, as when the roof drips on them.

Treatment. Give plenty of light and air, opening the plants themselves.

Sprinkle a mixture of equal parts of air-slaked lime and flowers of sulphur on the affected parts.

5. NEMATODES, OR EEL WORMS

Violets are often attacked by these minute worms which make nodules on the roots. They are of little importance and, if the soil is changed every year, they won't get numerous enough to do any damage. Sterilization will take care of them.

These are not all the troubles to which the violet is subjected but are the worst ones of general widespread importance.

R. L. Adams

HORTICULTURE

AN ILLUSTRATED JOURNAL
DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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Telegrams, Oxford 292

WM. J. STEWART, Editor and Manager.

During the past week the rain so much needed in eastern New England has come in copious showers and already lawns sere and brown from the combined effect of drought and cut worm are taking on the rich fresh green which is a feature of New England scenery in normal seasons.

The rudimentary training in gardening occupations which is being given the children of the public schools in many parts of the country should bear fruit in later years in a wave of popular horticultural intelligence such as is yet very rare. The florist and seedsman who has had dealings with the average plant or seed-buyer has cause to envy his successor of a quarter century hence.

The annual report of the energetic secretary of the Florists' Hail Association makes very suggestive reading when one stops to think of the relief and comfort that the payment for losses must have, in many cases, brought to the recipient. Nothing can be more sudden and few afflictions can be more disastrous than that which a lively hail storm can impose upon the florist. Judging from the reports it appears that the hail visitations of the past year have generally kept well within "the belt."

It is a paramount duty for every individual employed in floriculture or allied pursuits to identify himself with the local club or other organization active in his neighborhood. Imagine the tremendous influence such bodies might wield for the individual and common good if every one, employer and employee were to ally himself with it. The beneficial effects of these organizations, brought about hitherto, show what is possible where the interest is confined merely to a small fraction of those who are eligible and are a pertinent suggestion as to what might be accomplished if everybody would lend a hand.

The niggardly economy practiced by many city retailers in the mid-summer season is apt to react on those who are doing it. Practically no cut flower stock is kept on hand and when a customer calls for what he

wants it is not forthcoming. The result is that the goods will be sought elsewhere. There is, of course, some risk in carrying a regular stock through the dull season and some loss is inevitable when this is done, but at summer prices the loss is insignificant and does not compare with the loss sustained by the estrangement of a customer who, finding accommodation elsewhere is liable to transfer his patronage. It is well to remember that the flower-buying public has a memory.

It is our belief that the S. A. F. will yet adopt some practicable way of promoting the objects for which it exists, by working through or in co-operation with other organizations. This is greatly to be wished, especially in respect to communities far removed from the confines within which the society must needs, as a rule, locate its annual conventions. There is, for example, a big field all along the Pacific coast for organized horticulture endeavor on the lines on which the S. A. F. is working, the cultivation of which should not prove an insurmountable task, and there are abundant opportunities not so far away. "Closer relations" is by no means dead as an issue and we feel confident that the much-to-be-desired solution of this problem will yet be found.

Greenhouse building has been active all through present season and the aggregate of additions for the year will compare favorably with the average of recent years. The builders report especially large accessions to the glass erected for private use. Every private range that goes up makes employment for a larger number of expert gardeners, means more business for wholesale plant growers, for seedsmen and bulb importers and greater encouragement for the hybridist and introducer of new products. So it is not alone the builder and glass dealer that profit by the multiplication of conservatories. The possible trifling shrinkage in the cut flower sales to those who have houses erected for their private use is nothing as compared with the gain made in other directions and every glass house added contributes to the magnitude of our horticultural business and enhances its prosperity.

A perusal of the various reports of local conditions as made by the state vice-presidents of the S. A. F. shows that, while in most of the large flower-growing centres the supply of flowers is in excess of the demand during the greater part of the year, yet in a large majority of the smaller and more isolated communities the pinch of scarcity is felt at every recurring special season. At first thought a compensating distribution of the surplus would seem to be a simple remedy but the fact is that the surplus is rarely of a grade satisfactory to the country buyer, who has come to be very fastidious as to the quality of goods he will accept. There are very few of the local florists in the smaller cities and towns who do not know just where to put their hands on plenty of stock, such as it is, for all reasonable holiday demands. It is not the scarcity of flowers, as such, of which he has to complain but his inability to get suited as to grade and—*we might also add—his unwillingness to pay the price for the sort of goods he demands.*

AFTER ADJOURNMENT.

From an interesting letter written to us from Paris, by Mr. A. Leuthy, we quote the following:

After an unusually fine passage I arrived in Belgium and at once started to work looking up stock which I must say is rather plentiful.

Azaleas are looking fine and are seen in large numbers, but there will be a great many which are kept back late and will not be well-budded. Some sorts are rather short and others too plenty, but have never seen so many as this year. Kentias are in good demand in Ghent in certain sizes, but there is an over-production in other sizes. Yesterday I walked through 463 greenhouses mostly filled with kentias from very small plants in seed pots up to plants worth \$100 each. Cocos are also very much seen around Ghent. Very few latanias. Phoenix Canariensis can be found in large blocks as well as other sorts. Camellias are coming again to the front and are seen almost everywhere. The stock of plants for fall delivery in Ghent looks well, and they expect a good trade this season.

WHAT THEY SAY OF US.

To Horticulture:—As we have taken orders for about all our salable stock, we shall have to stop our ad. for the present, otherwise we certainly should have kept it going. Our returns through Horticulture are very satisfactory, and we shall patronize same on a bigger scale when we start again.

Very truly yours,

FOAT BROS.

Ettrick, Va.

A NEW DECORATIVE EFFECT WITH LILIES.

Our frontispiece shows the graceful effect of the new Farquhar form of Lilium Philippense in vase work. Florists will await with interest the general introduction of this superb new decorative lily, which we are assured will bloom for Easter from bulbs planted in December or January.

PERSONALS.

W. P. Craig of Philadelphia, and Miss May Falsteth are to be married in October.

Louisville will be represented at the S. A. F. convention by Jacob Schulz, August R. Baumer, Anders Rasmussen and C. H. Kunzman.

Mrs. N. P. Brown of Westboro, Mass., has secured as assistant in her greenhouse, Mr. James S. Power, formerly of Westboro, but more recently of Laconia, N. H.

Harvey Crosby, a graduate of the horticultural course at the Massachusetts Agricultural College in the class of 1905, has just gone to Rockville, Conn., to take charge of the place of Mr. A. N. Belding.

The following Buffalo people are in attendance at the S. A. F. convention in Washington: Mr. and Mrs. W. F. Kasting, Mr. and Mrs. Charles Dale, Mr. and Mrs. Charles Schoenbott, G. W. McClure, Prof. Cowell, D. B. Long, William Scott, Jno. Lindsey, R. Boettger, William Mansfield, Thomas Mansfield and Charles Henson.

BRIBING BUSINESS EMPLOYEES IN GERMANY.

From United States Consulate at Cologne, Germany, Frankfurt, Germany.

Bribing employees who act as buyers for mercantile houses or who in the capacity of salesmen or saleswomen attend to customers in retail shops, especially in department stores, is an abuse which has grown in Germany for some years and has caused many complaints in business circles. It has become so serious that the chambers of commerce and other mercantile bodies have considered it necessary to discuss measures for relief.

The commercial traveler or representative of the manufacturer who wishes to sell to the retail dealers will, in many cases, pay employees of the latter commissions in consideration for giving the goods of the bribing house the preference, showing them to the customers in the shop, and keeping the goods of other firms out of view. Some of the large retail firms employ men or women to purchase supplies; others, when ordering, consult their sales people as to making selections.

This practice of bribing extends to other branches of business. A case has just been decided by the supreme court of appeals at Cologne, where the technical manager of a car-building concern was discharged by the company which had employed him, because he accepted a commission from a firm for which he procured orders. The manager claimed that such gifts, that is, percentages paid him in money, were customary and worked no injury to his employers, but the court held that the action constituted a gross breach of trust, and that the manager was in duty bound to study the interest of his employers and not to be influenced by selfish considerations. The lower court decided against the manager and the supreme court of appeals affirmed the decision.

The chamber of trade and commerce for the province of Palatinat at Ludwigshafen has petitioned the Bavarian Government to introduce a bill in the legislature to suppress the bribing of employees, which seriously injures legitimate trade and hurts the good repute of German manufacturers. The chamber recommends that the party giving or attempting to give a bribe shall be punished, as well as the person who accepts or asks it. Other trade bodies have adopted similar resolutions. The chamber of commerce of Leipzig has petitioned the Saxon State government to have a law enacted making such bribery a criminal offense. The chamber of commerce of Berlin in its last annual report also inveighs against this nefarious practice, which it says corrupts business life, increases the prices of goods, and gives unscrupulous competitors an undue advantage over honest merchants.

Sunflowers are weeds, according to the supreme court of Missouri, and a Kansas City doctor has been fined \$1.50 because he was under the impression that they were flowers, and therefore failed to pull them up from his own land. This is carrying the Missouri idea of getting rid of everything yellow a little too far.—Boston Herald.

NEWS NOTES

The California Promotion committee announces that the U. S. Department of Agriculture is establishing a sub-station in the plant introduction garden at Chico for investigations in agriculture.

Professor L. H. Bailey of Cornell University is delivering a course of lectures on "Industrial Education and Country Life" at the University of California's mid-summer school.

The second meeting of the creditors of Joseph Kift & Son was held on the 8th inst., when a compromise was offered but did not meet with approval. Further action is scheduled for the 22nd inst., but it is hoped that Mr. Kift will be able to make an acceptable proposition before that date.

J. J. Conley of Newburyport, Mass., has entered a claim against the local gas company for alleged damage to the flowers in his greenhouse, which he claims were killed owing to a leak in the gas main and has begun legal proceedings against the company, the ad damnum being placed at \$20,000.

The city of Springfield, Mass., is suffering from a severe attack of the elm leaf beetle, the worst defoliation of the trees since the year 1897 having occurred this season. The city forester attributes the return of the detestable pest to the fact that spraying has not been so generally or thoroughly done this year as in the past.

The next Manila transport to leave San Francisco this month will carry a shipment of twelve varieties of robust California roses in 6 and 8-inch pots, a gift from army officers at the San Francisco Presidio to be transplanted for the adornment of the post of the Department of Zamboango, Philippine Islands; also a shipment of 1000 slips of eucalyptus trees for experiment, in return for which is promised an equal number of the fragrant blooming ylang-ylang tree for the Presidio in San Francisco.

A meeting of the trustees in the Peacock Company's affairs was held in Philadelphia on the 8th inst., when an agreement satisfactory to all concerned was arrived at. Concessions have been made in some cases, and advances promised in others, so that all financial difficulties are now smoothed over and put on a proper basis for the future. The trustees will control finances for a specified time. The company has a fine property and excellent prospects. The temporary embarrassment was caused mainly through growing too fast.

OBITUARY.

Alexander Steele, a retired florist of Winchester, Va., died on August 8, aged 90 years. He was a native of Perthshire, Scotland. He leaves two sons and three daughters.

James Kirby of Manchester, N. H., died on August 5, after an illness extending over three years. Mr. Kirby's long experience as a florist had made him an expert in his profession.

VACATIONISTS RETURNING.

J. B. Weise and family of Buffalo, have returned from their European trip. W. J. Palmer and family of Buffalo, are back from Muskake Lake.

Society of American Florists and Ornamental Horticulturists

The Washington Convention is a Great Success From Every Standpoint

Large Attendance From All Sections of the Country A Splendid Exhibition

As was anticipated, the visit of the national society to the Capitol City drew out an enthusiastic attendance of old members and new, and the enterprising dealers, growers and manufacturers of the country recognized the unprecedented opportunity to do business with the progressive men in attendance by putting up a display of their specialties, which in many respects has never been equalled. The late additions to the list of exhibitors overtaxed even the overflow space in Masonic Hall, thus making three large halls completely filled with exhibits.

Monday evening and Tuesday forenoon saw the arrival of big delegations from all directions, and the opening hour, 2 P. M., on Tuesday, found about everybody on hand excepting the hundred or more on board the special train bearing the Chicago, St. Louis, Detroit and Buffalo people, including the president, who were unfortunately delayed three hours behind the schedule time. The proceedings opened at 3 P. M. in Carroll Hall, the audience room being filled completely with an appreciative audience, in which were a large number of ladies.

President W. F. Gude of the Florists' Club of Washington opened the proceedings with a few appropriate remarks, and then introduced Commissioner H. B. P. Macfarland, who made a most felicitous address of welcome, and concluded in the following words:

"You are represented here by some of the best of our citizens, honorable for their constant charity, as well as their contributions to the common stock of beautiful things. You could not go anywhere without reminding your hosts of the strongest and tenderest sentiments.

"The head gardener of Mount Vernon, where Washington's own hand made grace and beauty, after he had shown the most perfect development of patriotism, that flower of all civic virtues, has made it possible for us to present you today a most appropriate gavel made from magnolias planted by Washington and Lafayette, and still living to connect us with them.

"What more fitting symbol could be given of the noble beauty and lovely memory of the Father of His Country and his friend and comrade-at-arms, the representative of our only ally, who said, 'When I heard of your cause my heart enlisted?'"

The Vice-President then handed the gavel to President Vaughan, saying:

"We have great pleasure in giving to the national society a gavel which must be of interest to every patriotic American, and doubly so to every member of our beloved society, for never before, to my knowledge, has the presiding officer of any organization wielded one of such sacred association. The head of this gavel is made of magnolia grandiflora, from a tree planted by Gen. Washington in 1799—the year of his death. The handle is of magnolia purpurea, from a tree planted in 1824 by Gen. Lafayette. Both of these trees were planted at Mount Vernon, and are yet living."

Following Mr. Macfarland an address of welcome on the part of the Department of Agriculture was delivered by Assistant Secretary of Agriculture Wilson, who took the place of Secretary Wilson, the latter being absent from the city. Mr. Hays said in part:

"I have great pleasure in welcoming you and inviting you to the Department of Agriculture. It is a great work that is being done by the department in furthering the horticultural and agricultural interests of the country, and the band of scientists, young men and women, many of whom are graduates of our agricultural colleges and other institutions of learning, are destined to form a noble factor of what is soon to be the greatest and most useful scientific body in the world. Because persons have been defective in some respects in a great system, because there have been personal foibles among men to whom this country and all humanity owe a debt of gratitude, is no reason for condemning the system. Your careful study of plants individually has been an inspiration to the government plant scientists, and you should keep in touch with them, for

you will be mutually benefited. Even you can hardly appreciate the work which the experts of the department are doing for you, as well as for the community at large, in furthering the knowledge of horticulture, and of plant life, with the view to making this great agricultural nation bring forth the best of which it is capable."

President Vaughan then assumed the chair and read his address, as follows:

PRESIDENT'S ADDRESS.

At this twenty-first convention and in the presence of many who were with us in 1885 a story well worth hearing could be told of what we have accomplished. This story of earnest work by many, on many lines which made our society a remarkable one in the first few years of its history, should some day be written for us. But as your president I have too large a conception of our future to devote the time, which your custom gives me, to a backward view. If we made a wonderful advance in the first five years of our existence, what may not our younger members accomplish in the five years which begins today?

Our Opportunity.

There never was a time in our history when opportunities for exploiting our business were greater than today; never a time when the public was so eagerly interested in horticulture and floriculture; never a time when there were so many patrons of floriculture. Nor is this interest a narrow one. It considers the use of horticulture beyond the decoration of private grounds and is alive to its uses in all public ways.

Therefore, I shall emphasize first those lines on which we can work individually and as a body. The individual in his own neighborhood, club, city or state; our society, among clubs, nationally.

Increasing Demand for Plants.

President James Dean said in 1892: "Our advance as a society must be commensurate with and excel the advance of floriculture, which, during

the past twenty years has been phenomenal. The trade has now assumed colossal proportions in America. The efforts of our members have brought floriculture today to be a leading industry of the country.

How true then, and how true today. We have made wonderful progress in caring for the advance of floriculture on cut flower lines. The production of flowers to meet the public demand has been far beyond the expectations of the most sanguine. With few exceptions, in all states of the Union, our members seem to be keeping pace with this growth. But there has grown up within the past three or four years, and more especially within the last year or two an unusual and general interest in plants. Not that the use of cut flowers has lessened, but the public has decided to have horticultural homes, to live among plants, shrubs and trees. This is the demand we must care for today or we will not come into our own. The public rightfully expects this of us and will reward us with a liberal patronage. I am not sure that we appreciate this as fully as we should.

Vice-President Theodore Wirth, superintendent of Hartford, Conn., parks, gives us earnest advice in his state report of 1904:

The cultivation of the taste for flowers and decorations has become universal. It most decidedly has, and I am not only bold enough to state that the tendency of the public in that direction is greatly due to the influence exercised on same through the floral displays, decorations and cultivation in up-to-date public parks and private grounds, but claim that but a small percentage of the commercial florists of today, both growers and dealers, are ready and prepared to take advantage of the demand stimulated and created through same to their benefit. Hundreds of visitors to our parks want to know where they can procure that or the other plant, all easily grown and adapted to our climate, and when they are given the addresses of our florists they come back and say that those florists don't grow them and don't know them.

If the local florists would aim to keep step with the times by growing such novelties as are proven to be meritorious introductions and which the public want, they would to their own advantage secure a home trade in place of forcing same into the hands of unscrupulous, swindling, fake drummers, that go around the country collecting good money for false, worthless goods.

Our Art in Public Improvements.

A large section of civic improvement work now depends upon the use of our products. Our art is most applicable and available for this purpose. It is used in streets, parks, vacant lots, children's play-grounds, etc. The awakened public interest in horticulture has increased the demand for our aid broadly in this direction. This is our great good fortune and is our opportunity. This favor shown to our profession by our best citizens should be our inspiration. It should cause every florist to join or lead all movements for civic improvement work which have in their scope the use of horticultural

products, not for pecuniary advantages that may come directly or indirectly, but for the better reasons that horticulturists can handle such matters intelligently and efficiently, and because they cannot afford to allow any other class of their fellow-citizens to precede them in applying their art to the betterment of mankind. If they have noble opportunities in their chosen pursuit let them be foremost in putting them into practice.

Begin Improvements at Home.

J. Horace McFarland, president of the American Civic Association, writes:

The Society of American Florists at the Washington convention should co-operate with our association by asking its members to clean up and develop their own places as examples to the communities in which they live. Calling to mind the various floral establishments you have seen, you will remember that many are dirty and unkempt. Sometimes there is a little ornamental front gate and show greenhouse, back of which is an ill-looking potting shed banked up with rubbish of various kinds. Thus have the florists themselves by dirt and disorder often belied their own profession as beautifiers and decorators. The platform of the American Civic Association is "a more beautiful America," and there should be no people in all the country who are so much in line from a business standpoint as those connected with the horticultural trade.

Many of us can confirm with regret Mr. McFarland's words. There is much for us to do in this direction. We must not only clean up, repair, and paint, but we must burn or bury the rubbish, and we must do more. We must have room for perennials and shrubbery as well as bedding plants and around our establishments; we must have varied and beautiful window boxes and plants in tubs. These groups of shrubbery, these boxes and potted plants not only decorate our surroundings and make them examples, but from all of these, sales may be continually made and the stock continually replaced. Thus instead of making our betterments an expense, we make them a source of added income.

President Lonsdale in 1895 on this line said to you:

The florists' business is something more than the cut flower trade. There is the beautifying of gardens and grounds, much of which comes under the care and suggestion of florists and gardeners. But the first thing every wide-awake florist will do is to beautify his own home and surroundings. It is positively necessary for us to have examples of everything that is good and grown in the most attractive and best possible manner if we would have the desired effect on our surrounding neighborhood.

The Press a Great Aid.

You have all seen the increasing space given to horticulture in the public press. The ablest editions of our metropolitan Sunday papers are alive to the public interest in gardening, and not only buy syndicate sheets of horticultural news, but employ able writers on special subjects. They are

more than ready to receive reliable information of this class. They will gladly print free of charge all gardening news and cultural information we will supply them, and such articles could be made of great general good to our trade everywhere.

I find that President Lonsdale in 1895 recommended a press bureau to be attached to the local societies to supply monthly, weekly and daily journal with reliable news and cultural notes. A bureau once established would immediately become authoritative on these questions and would rid us of the exaggerated statements now freely circulated in irresponsible journals, often of such a nature as to make our best people skeptical regarding all horticultural news.

National Council of Horticulture.

This society is asked to be one of six or eight societies to contribute toward carrying forward the work of floriculture in a National Council of Horticulture, whose objects are stated as follows:

To fraternize and concrete the horticultural interests of North America.

To consider the questions of public policy and demonstration which are common to these organizations.

To act as a bureau of publicity in the interests of reliable information pertaining to horticulture in its broadest sense.

It is expected that the nurserymen, seedsmen, pomologists and other societies will co-operate.

I suggest the appointment of a committee to confer with the council, with power to co-operate if in their judgment the plan is practical and advisable.

Exhibitions the Great Uplifters.

President John N. May said August 20, 1889, at Buffalo:

We should do all we can to advance and extend public exhibitions. They are not only educators of florists, but of the whole public at large. As workmen we must keep abreast of the times, and the best possible opportunity for us to do so is to meet and freely discuss all matters of interest.

President Robert Craig said at Chicago in 1887:

When an exhibition is attempted, every gardener and florist in the neighborhood should, as a matter of personal pride and duty, do his part in the work. It is often complained that the public does not sufficiently appreciate the floral shows. Is it not because they are so frequently unworthy? If we open to the people a good show we can depend upon moral and financial support.

With the recent great awakening of public interest in floriculture we have all seen the tendency of the promoters of various charitable and other enterprises to make use of prominent sections of their bazaars, or even to institute, on behalf of some worthy society or charity, a so-called flower show. This tendency is particularly noticeable in California, and there is need of emphasizing President Craig's counsel of 1887. Should it not be the duty of every local florist or gardener wherever an exhibition is attempted under the banner of a flower show, to

come forward and insist that the affair be a creditable one, since we all know that every exhibition of this kind, if poorly carried on, is a direct reflection on every local member of our profession. We are, in the public mind, held responsible. It follows, therefore, that we must take hold and have it properly exploited, or deferred until such time as it can be creditably carried out. Otherwise, future exhibitions in the same locality, undertaken by our craft and with our best efforts, will be discredited by the public because of the fake shows which we have without protest allowed to be undertaken.

Horticulture in the Public Schools.

At Boston, in 1890, President J. M. Jordan said: "No school of recognized ability to graduate a pupil should leave out of its curriculum books teaching the fundamental lessons of horticulture, and even our common schools should teach the rudiments of this art."

President Lonsdale in 1895 recommended the study of botany in the public schools in the primary grades. In this connection Prof. J. P. Cowell in 1896 wrote:

I have been in position to watch from the beginning the efforts to establish "nature study" as a part of our public school curriculum. This teaching, which was taken up but a few years ago in our educational centres, is spreading rapidly, and one can see already some of the results. Not only have the children a better understanding of nature and her products, but by the methods employed in teaching they come to love the plants they care for and to appreciate in some degree their value; the laws which govern their growth and the loss entailed by their destruction. Now I believe that when these children come to be men and women we shall see flower lovers more abundant and garden makers more skillful than is generally the case now.

Passing these important broad lines of our work in relation to the public, both as individuals and clubs or societies, I now come to those matters which concern us directly as individual members of our society and as a society.

Organization a Necessity.

At New York City, August 21, 1888, President E. G. Hill said:

The formation of florists' clubs at trade centres is of inestimable value to every member of such club, doing away largely with trade jealousies and bringing our profession more prominently before the public. The value and need of association is recognized in all professions and in all lines of trade, and none need it more than we in our profession. Associated effort incites our aspirations, begets fellowship, promotes harmony, destroys ignorance, removes differences, prevents misunderstandings and encourages trade. These are some of the fruits of associating together. Then let us renew our fealty to this organization and seal anew our pledge to extend its usefulness.

This society stands publicly as the official head of North American florists and floral societies. It represents every individual and ought, rightfully,

to represent every floral organization. If we do the public work in the present and future that we have done in the past, we may rightfully insist that at least two or more officials from every florists' club and society should also be members of the S. A. F.

If the S. A. F. is to secure uniform inspection laws, adjust postal matters, struggle for equitable freight classifications, for fair legislation to the direct and material benefit of all, it must not only have the support of membership fees, which is a trifle to the individual, but it must also have the working support of many members. Florists' clubs and societies should send one or more public-spirited working delegates to our annual meetings, instructed as to the public aid which their club desires from us. The expenses of such delegates should be paid by the club. To the best results, these delegates should be present at our directors' winter meeting as well as at the annual session.

Gardeners as Members.

In 1885 at our first meeting in Cincinnati President John Thorpe said: "There is a great deal of untrodden ground for us to go over yet and where we can do much good, especially among gentlemen's gardeners and amateurs. There are nearly 2000 gardeners in the employ of gentlemen who are holding positions of trust and responsibility. These gardeners are always well informed, and would be of valuable aid to the society."

At Chicago, in 1887, President Robert Craig said:

The society has done wisely in not restricting its membership to any class, but has thrown open wide its doors to welcome all friends of the art. Its chief object is to cultivate in the people of America a taste and love for plants and flowers, and it should endeavor to get into its ranks not only all the commercial florists and those engaged in supplying their various wants, but should exert every effort to interest gardeners on public and private grounds. On this class much depends; to them is entrusted a great work in the advancement of horticultural taste, and if it be intelligently done they will, in the growing appreciation of the American public, find due encouragement.

I have read many extracts showing the foresight of our officers along the lines of the growth of this society which we have seen developed, but only in the words quoted from President Thorpe and President Craig do we find even an intimation of the great help coming to our hands from the public and private gardeners. While we have all realized what wheel horses they have always been in most flower shows, we have not been prepared for the enormous increase in their numbers, nor have we realized that because of these increasing numbers, the great importance of their work, and the large expenditures of money under their direction, they must make themselves felt in our various clubs and societies.

I wish to call attention to the fact that many of our strongest gardeners and florists' clubs today from Massachusetts to California are dominated by live workers from public institutions and private estates. There are among them many who are able and ambitious and whose employers en-

courage participation in everything that belongs to horticulture.

These brothers of ours are not only strong in clubs in our trade centres, but they are organized in smaller suburban towns where the membership is almost exclusively their own. The Society of American Florists must have their support. They must consider our society their national representative. They must be members and be represented at our meetings. Our annual convention program must contain matters of vital interest to them. Our auxiliary societies, which are maintained by loyal members of this society, must consider the welfare of these gardeners and provide opportunities for their co-operation in the rose, carnation and chrysanthemum societies.

The question mentioned elsewhere regarding favorable membership rates for club members in good standing must be carefully considered by our committee with relation to these gardeners' clubs. The visits of our officials as suggested elsewhere will be heartily welcomed by those now active and the new ones constantly forming. Knowledge of the management and development of these clubs which our officials can supply will bind the new organizations to us with strong and lasting ties. The necessity of an official representative of our society, whose whole time is thus occupied is best seen in this rapidly developing section of our affairs.

Society Work Between Conventions.

The very life of the society lies in its membership, and recognizing that we are not growing as we should, or in proportion to the growth of horticulture, I offer the following suggestions that seem practical to me and worthy of the consideration of the committee which I believe should be appointed and which should report at an early session.

President Anthony said in 1894:

The secretary should receive such compensation for his services as would enable him to devote his whole time to the interests of the society. There are innumerable ways in which a paid officer could be of benefit to the society.

We must have more time from one of our executive officers, presumably the secretary, and probably not less than six months of his time, that he may visit once or twice a year by appointment, if possible, all horticultural societies, florists and gardeners' clubs, nearly all of which this society may rightfully represent in a national way. It is certain that such visits would not only bring to the society a larger fund from increased membership than would cover his additional salary, but further, such visits made in company with other officials, state vice-presidents or members of our board of directors, would result in great good and enthusiasm to the societies themselves.

The secretary could suggest the best methods of club work, could explain the forward movement of the S. A. F. on new or old lines, and could keep in close touch with the needs and opinions of the trade. On such occasions our membership could and would be increased.

It being conceded that the greatest possibilities for increase in members and in interest in our society lie in the florists' clubs, I suggest for your con-

sideration that members of these clubs in good standing be admitted to membership in the S. A. F. at a reduced rate, the dues for such local clubs to be remitted by the secretary of these clubs not later than July 1 of each year. Your committee on closer relations at Pittsburg in 1895, Messrs. Esler, Hill and Beatty recommended that the officials of our society endeavor to arrange for the admission of florists' clubs and members of the Florists' Hall Association to the Society of American Florists by the payment of a certain gross sum which should entitle each member of these clubs and associations to a yearly membership in the society, said sum to be fixed annually. This is in line with my suggestions. It is worthy of your consideration that our society also admits all members in good standing of the carnation, rose, chrysanthemum, and other like societies at a reduced rate.

As I believe the leading officials of these kindred societies are present today, our committee to consider these matters might be made large enough to include one of their representatives. Hear what President Wood said in 1900:

Our members should be constantly thoughtful and active for the society in obtaining new members, soliciting every one who trades with them to become a member of the society, following the example set by that distinguished horticulturist, C. M. Hovey of Boston, when he was trying to extend the Massachusetts Horticultural Society. He and his superintendent and clerks solicited every person who came to his nurseries or greenhouses become a member of that society. In this manner I became a member at the age of 24.

Practical Education.

This subject has been referred to a number of times in the history of our society, and I can only repeat the conclusion that our work should be done through some of the universities already established. The states of New York, Massachusetts, Michigan, Missouri, Indiana, Illinois, and probably others, contain universities which afford fairly good opportunities for horticultural education.

If the treasury of this society contained a somewhat larger permanent fund, or if some of its well-to-do members would combine and contribute to such a fund, the society might well endow a chair of practical floriculture in some of the already established colleges or universities, or it might provide for practical lectures to be given at certain times during the year at one or all of the above named universities.

I would suggest that, should you at this time see fit to appoint a committee to consider the subject of promoting the adoption of a text book on plant life in our primary schools, this last question can well be left with the same committee.

Something Besides Book Learning.

John N. May said in 1899:

It is a deplorable fact that many graduates from agricultural and horticultural institutions, although well versed in the theory, are lamentably deficient in practical experience.

A vice-president of our society in a great horticultural centre, himself a

leader, says: "Our business is just at the dawn. Why, we haven't started." He said further: "I am sure you can do nothing better at Washington than try to inspire our young men. Say, to them, foundation of success is honor, next patience, do your work well, do it a little better than the other fellow. Know that you can do some one thing, if only one. That is the first requisite. Let the young man be able to say d-i-n-i-t-e-l-y, I can do this."

Of five agricultural college graduates tried by him, all failed. They were hired and trained away from the actual doing of the work. They were trying to direct working men to do that which they themselves could not do well.

Build On Right Lines.

The awakened interest in floriculture means that many customers, and the best ones, are seeking information, the names of flowers and plants, how they grow, their care. You are looked upon as trained horticulturists. Your ability and willingness to supply information helps to lay a broad foundation for your business. There are, as you know, some shops bearing florists' signs whose owners handle our produce simply as merchandise, without technical knowledge. They not only cannot tell the customer what he may wish to know, but they purposely mislead or exaggerate. While such misinformation reacts mainly on themselves, the effect is bad for the trade generally. Chemically colored or distorted flowers are also to be avoided. You "magnify your office" by freely yet carefully dispensing this knowledge. You acquire a reputation among business men in your community by your ability to supply this information. Books of reference in horticulture at hand which the customer may look over at a convenient desk are a benefit. Books on gardening may be given out. The telling of how to do these things passes on to others and to your credit.

A Field For Women.

President Norton said at Toronto:

We should not forget the ladies! I would recommend they be given an opportunity to enter the business. Their correct taste and their aptitude for recognizing the beautiful in form and color make their services desirable as artists and designers, where harmony of color is so essential. There are many women today throughout the country who are doing a profitable business on their own account, and there is room for many more in an occupation which is so appropriate and pleasant, and for which they are so admirably fitted in refinement and taste.

While quite a percentage of our retail flower stores for many years have been owned or have been actively cared for by women, more recently they have taken up the work of house decoration. This is particularly the case in the Pacific coast cities where their business is of sufficient importance to require well equipped shops on good streets. There are further good opportunities in horticultural lines for women with business tact who are willing to take the time to equip themselves with a thorough horticultural education. Landscape gardening, for instance, is an almost untried field for women, although there is no good reason why

with training they should not make it a successful and lucrative profession.

Tariff Hardships.

The high protective tariff on glass, flowering bulbs and plants has frequently been complained of by many of our members, but without effect, and many of those who have labored hard for relief in former years have finally abandoned the case as hopeless. I am glad to see at this time that help seems to be at hand. The continued enforcement of a high and arbitrary tariff, which in many cases causes annoying and vexatious details for both seller and buyer, together with fines and arbitrarily increased valuations, have borne their natural fruit and various foreign countries are meeting us more than half way with high tariff rates for merchandise which we have been selling liberally abroad. Further, they are placing duties as high as 75 per cent. against goods received from countries whose known protective tariff is excessive, and are making the duties as low as 15 per cent. when the tariff of such countries is moderate.

This legislation is evidently aimed at the United States and the merchants' association of New York is alive to the trade and demands reciprocity treaties which will do justice to all countries.

It would be well for our legislative committee to give all possible aid to such associations, that our own burdens may be lessened.

In Detroit, in 1899, Patrick O'Mara, chairman of our legislative committee, recommended that specific duties be asked on plants and bulbs instead of the present system of ad valorem duties. He also recommended that our legislative committee act with the nurserymen in these matters.

Postal Reform.

For our members who print catalogues and mail their wares, and their number and percentage is increasing, this is perhaps the most important national matter affecting us. It seems reasonable that the third and fourth class matter should be combined on a basis of one cent for two ounces. We should have a bulk rate per pound for catalogues without the per ounce weight limit which now compels us to trim each catalogue to an exact fraction, with no gain to the government.

Lastly, we should have a trial of the parcels post. Many of those who have given the subject much study and who know its workings, are firm believers in it, and it certainly seems well worth while to give it a trial. Every member could write his congressman concerning these reforms and could induce others to write also. We ought to encourage our legislative committee by pledging ourselves at this meeting to give such support. The seedsmen and nurserymen, the agricultural implement association, and other strong national associations are with us. This is the time to act.

State Aid on Experimental Lines.

President Rudd said in 1899:

We are not as a class receiving from the experiment stations—institutions established and conducted with public funds, and for the public good—those benefits to which we are entitled. For this state of affairs no one is to blame but ourselves. We have neglected to make our wants

known in an intelligent manner, and have not accepted graciously what little work has been done in our behalf.

The state of Illinois expends from \$10,000 to \$20,000 per year on experimental work in horticulture, most of which has been applied to pomology. Other states are no doubt following the same lines. Our local horticultural societies may rightfully demand appropriations for experimental work in horticulture, or a share of the appropriations already made. The volume of our business and the amount of capital now invested in commercial horticulture entitle us to this consideration. Plant diseases, fertilizing experiments, storage of cut flowers, etc., need careful experimental work.

That Permanent Home.

I do not find that the committee appointed to report on this subject ever reported. If as President Bretmeyer said at St. Louis: "We should keep this idea alive, even though its accomplishment be far distant," we should perhaps have a standing committee to have this subject in hand. We can surely do nothing without one.

Arbitration.

In 1898 your society established this department on recommendation of your executive committee. Their duty as stated at that time was to promote amicable adjustment of controversies between members when requested by interested parties to do so. The five members of this committee are to be appointed by the president and approved by the executive committee. If it is still your wish to carry forward this department as shown by your records, probably it should be revived by a motion and a vote.

A Spring Flower Show.

President Gude at Omaha in 1898 said: "You should let your light to shine before men that they may see your good works. If London can produce monthly a great flower exhibition there is no reason why America could not have annually at some great metropolis a flower exposition wherein the whole country could join, and before concluding I trespass this suggestion upon you that steps be taken here at this meeting to carry out this idea."

State Vice-Presidents.

I urge upon state delegations to choose only members for state vice-presidents who are known to be workers in matters of this kind. The empty honor is of little value to him who receives it, while neglect of the society's interests is disastrous.

Our Sports.

The present division of time among the varied interests at the annual convention was brought about after the most careful consideration. A liberal portion of the available hours has been given to our bowling and gun clubs. We must not disparage these features of our meeting. Those kindly spirits among us who are active in these recreations are generally rich in those elements of human nature which help to make life worth living. But it must be born in mind that our organization convenes but once a year. Its existence depends on a certain amount of careful deliberation as a body. Questions vital to its advancement are to be decided and to do this we require and must have the careful judgment of our

best minds after frank discussion. That ability which can carry forward the various sports and interest our members in them we ask to be devoted also to the public sessions. Men prominent in our affiliated societies, the carnation, the chrysanthemum, the rose, the peony, can aid us in the same way. Then we in turn shall rally and interest ourselves in their gatherings.

Merchandise at the Convention.

The display of plants, florists' requisites, building models, heating and ventilating appliances and of the many articles of merchandise have always been a feature of these conventions and have always paid their way. But many of our commercial brothers, as well as some of our sporting friends, we must admit have not always honored our sessions with their presence or their business counsel, which we need. Now I hold that both those who lead in our recreations and those who solicit the attention of the large gathering of buyers here assembled are in honor bound to attend these sessions of the society so necessary to carry it forward and without whose successful management there will be neither bowler, nor buyer, nor seller to be found.

For the General Welfare.

I must not close without paying tribute to those earnest and loyal men who have made and held together this body. Never was more patriotic work done in any cause. The locked doors were then opened; the wise lips unsealed; the skilled hand directed the beginners.

These earlier years illustrate the great success possible where all are actuated by a single purpose for the upbuilding of the organization itself. In those years our officials were selected from those who had made record for efficient and disinterested service on behalf of the organization. In more recent years with the broadening of our lines of work, and the increasing number of enterprises which seemed to place personal prestige before the general good of the society, we find apparently less whole-souled effort for the direct benefit of the organization, more inclination to criticism. We do not see the frank and open consultation which we should have on all subjects with a willingness to leave the final settlement to the arbitration of the entire society. This tendency to internal and factional differences, which those who promote them are unwilling to exploit in public before the entire body of our members, is certainly to be regretted and I hope that at this session the voice of the convention will be heard placing loyalty to the Society above all personal likes or dislikes, all petty or private schemes.

If there are those among us who deem our present line of work unwise and leading in a wrong direction, let them frankly bring forward such opinions in our sessions, that we may with a full and free interchange of views settle them amicably and be started forward again with that strong impetus of the earlier years of the organization.

The report of Secretary Stewart was then presented. It was as follows:

SECRETARY'S REPORT.

Mr. President and Members:

The records of your secretary's of-

fice disclose a period unusually free from sensational incident in the year that has passed since we turned away from the glories of the great exposition and the allurements of the Pike and said farewell to the brethren of the World's Fair city, whose untiring kindness had been so incessantly manifested during our stay with them. In the absence of more strenuous duties the zeal of your officers has found expression in an earnest effort to promote wide-spread interest in this convention and exhibition and bring out the largest possible attendance from all quarters.

The usual executive board meeting was held last April in this city. The program which you have before you, differing in some degree from the type of those arranged for past conventions, was the outcome of a feeling that it would be wise to give attention at this time to topics of broad horticultural interest and to avail ourselves of the advantages presented in the co-operation of the U. S. Department of Agriculture so freely proffered by its able and courteous officials. One new feature which has excited much interest is the prize essay competition on which a report will be presented by the judges at the morning session of Wednesday.

The statistics of the year are as follows:

The number of names on our published membership list for 1904 was 887, of whom 783 were annual and 104 life members. This included 118 annual and 32 life members who had been added or reinstated during the year. These 150 new names should be credited to the various states as follows: Florida, Louisiana, New Jersey, Oklahoma, Rhode Island, Tennessee, West Virginia, one each; Alabama, California, Kentucky, Maryland, Massachusetts, South Carolina, Wisconsin, Manitoba, two each; Colorado, Kansas, Minnesota, Texas, three each; Indiana, five; District of Columbia, seven; Pennsylvania, eight; Michigan, nine; Connecticut, ten; New York, thirteen; Ohio, fifteen; Missouri, twenty-three; Illinois, twenty-five.

The following-named members have been taken from us by death since our last meeting:

W. A. Ingram, Manchester, N. H., August 20, 1904.
C. B. Harkith, Ionia, Mich., December 23, 1904.

D. Newsham, New Orleans, La., January 15, 1905.

Charles T. Siebert, Pittsburg, Pa., March 7, 1905.

F. H. Beard, Detroit, Mich., March 20, 1905.

A. Whiting, Hartford, Conn., May 5, 1905.

W. S. Davis, Purcellville, Va., May 24, 1905.

T. Hinchliffe, Racine, Wis., June 11, 1905.

Registration of names of new plants has been made since last report, as follows:

August 27, 1904—Sweet Peas, Bridesmaid, Flora Norton, Evening Star, Nymphs, Speckled Beauty, Sunrise, Sunset, Mrs. George Higginson, Flora Fraser, by Vaughn's Seed Store.

October 1, 1904—Dahlia, Sylvia, by Vaughn's Seed Store.

October 4, 1904—Cannas Chappappa, Black Beauty, Chameleon, Indiana,

Wyoming, Juniata, by Conard & Jones Company.

October 13, 1964—Aster Vick's Mikado, by James Vick's Sons.

November 10, 1964—Chrysanthemum, Mrs. Eglington, by W. J. Lawrence.

November 23, 1964—Carnations, Mrs. A. Klokner, by Alexander Klokner.

December 29, 1964—Carnation, Mrs. W. L. Lewis, by W. L. Lewis.

December 31, 1964—Cannas, Hon. W. R. Hearst, Senator Hanna, Mrs. John A. Logan, by H. D. Seale.

January 14, 1965—Carnations, Mikado and Pink Patten, by Patten & Co.

January 14, 1965—Pillar rose, Garden's Glory, by Conard & Jones Co.

February 25, 1965—Nephrolepis Bostonensis Mauffli, by A. E. Mauff.

June 12, 1965—Roses, American Pillar and Birdie Blye, by Conard & Jones Co.

July 10, 1965—Zonal geranium, Mrs. Richard F. Gloede, by Richard F. Gloede.

July 14, 1965—Nephrolepis Amerpohli, by Edward Amerpohli.

August 25, 1965—Zonal geranium, Kenilworth and Illinois, by R. F. Gloede.

August 11, 1965—Zonal geranium, Tiffin, by Lewis Ullrich, Tiffin, O.

Medals have been distributed as follows:

February '17, 1965—Through the American Carnation Society, a silver medal to J. D. Thompson Carnation Company, for carnation Robert Craig, a bronze medal to H. Weber & Son for carnation My Maryland.

March 11, 1965—Through the Cincinnati Florists' Society, a silver medal to R. Wilberstetter, for carnation Aristocrat; a certificate of award of bronze medal to H. Weber & Son, for carnation My Maryland.

The problem of how to increase our numerical strength has wisely been given prominence of late. Even at the risk of appearing to overlook fundamental requisites, your secretary has long since become disciplined to the idea that the best evidence of health and prosperity for the society is found in the length of the membership list and the size of the treasurer's balance, and that whatever contributes to the attainment of this condition is an asset that must not be despised. In considering this vital question of membership a recapitulation of some of the secretary's records may prove both interesting and enlightening.

At the convention of 1889 at Buffalo, the first year in which the \$3 annual assessment went into operation, we find that the number of members who paid for that year was 827. For 1890, the year of the Boston meeting, the number was 926. In 1891, Toronto, the figure dropped to 827; in 1892, Washington, it was 829; in 1893, St. Louis, 685; in 1894, Atlantic City, 617; in 1895, Pittsburgh, 547; in 1896, Cleveland, 551; in 1897, Providence, 524; in 1898, Omaha, 436; in 1899, Detroit, 535; in 1900, New York, 719; in 1901, Buffalo, 739; in 1902, Asheville, 639; in 1903, Milwaukee, 745; in 1904, St. Louis, 711. These figures are inclusive of life membership.

The printed list published each fall should not be taken as an index of the number of members in good standing for the year the list is issued. It is true that the by-laws stipulate dues shall be paid in advance, but it has been customary to carry on the roll until the end of the year, the names

of all members in good standing up to January first of that year, and crossing off on December 31 the names of all those who have failed to qualify during the year. The percentage of lapse in recent years is about 15 per cent. from each annual list. Not all these members are permanently lost, however, for there are many who choose a fluctuating allegiance, paying the \$5 initiation fee in those years when they find it convenient to attend the convention. Broadly it may be said that our membership swellings when we hold meetings in the populous centers, shrink when we select locations smaller or more remote from these centers, and fluctuates as to its sectional preponderance in accordance with our movements, a series of meetings in one section building up the list locally at the expense of the section neglected; and this will always be true regardless of what we may say or do.

Of the 783 annual members whose names appeared on the printed list of 1964, 155 failed to meet obligations as to dues for that year, consequently on January 1 their names were stricken from the roll. It may be of assistance in the consideration of ways and means for enlarging our permanent membership to know the localities in which these lapses occurred. The loss is divided among the states as follows: Alabama, California, District of Columbia, Florida, Georgia, Indiana, Nebraska, New Hampshire, Rhode Island, Texas, one each; North Carolina, Connecticut, Maryland, two each; Kentucky, Missouri, three each; Massachusetts, four; New Jersey, five; Iowa, seven; Minnesota, eight; Wisconsin, Pennsylvania, fifteen each; Michigan, sixteen; Ohio, nineteen; Illinois, New York, twenty-two each; Offset against the additions in these respective states we find the net result for the year 1964 to be as follows: Net gain—Alabama, California, Tennessee, West Virginia, Oklahoma, one each; South Carolina, Texas, Manitoba, two each; Colorado, Kansas, Illinois, three each; Indiana, four; District of Columbia, six; Connecticut, eight; Missouri, twenty. Net loss—Georgia, Kentucky, Nebraska, New Hampshire, one each; Massachusetts, North Carolina, two each; New Jersey, Ohio, four each; Minnesota, five; Pennsylvania, six; Iowa, Michigan, seven each; New York, nine; Wisconsin, thirteen. Net gain by states, fifty-eight; net loss by states, sixty-three, giving a net loss to the S. A. F. of five. Conclusions from these figures should, however, be modified by the fact that a number of deductions are caused by removals from one state to another, also that a few of those members reported as having lapsed last year are liable to insist on paying all arrearages at this meeting.

With the security of a charter and the foundation of a substantial permanent fund, with the support of the most enterprising horticultural firms assured through the instrumentality of the registration department, with the co-operation of the dealers as shown in the splendid exhibitions of recent years and the loyalty of the younger element secured by the recognition of their games and sports at our annual meetings it would seem that now is a good time for a big concerted effort to build up our membership list, and thus make the twenty-first year of the so-

cety's existence a banner year in its history.

The report of Treasurer Beatty, showing the largest amount of cash on hand in the society's history, was next read. Following is a summary of it:

TREASURER'S REPORT.

General Fund.

Jan. 1, 1964, cash on hand.....	\$3,136.91
Receipts for year to Dec. 31,	
1964	2,756.43
.....	\$5,893.34
Disbursements	2,969.37
Balance Jan. 1, 1965.....	\$2,923.97

Permanent Fund.

Jan. 1, 1964, cash on hand.....	\$2,723.94
Receipts for year to Dec. 31,	
1964	491.92
Cash on hand Jan. 1, 1965.....	\$2,819.96

The evening lawn party and reception in honor of the President, which had caused many anxious hours for those in charge, proved to be one of the most enjoyable affairs in which the society has ever participated. Loeffler's lawn, which had been turned into a veritable fairy forest, with trees, flowers and electric lights, proved to be an ideal place for the purpose. A full band of music was on hand, and a mammoth barbecue and other substantial viands furnished material and aesthetic entertainment for the thousand or more members and their ladies. The weather prophet had predicted rain, but he was mistaken, and the conditions throughout were delightful. A receiving party consisting of president and Mrs. Vaughan, Vice-President and Mrs. Freeman, Secretary Stewart, Mr. and Mrs. W. H. Elliott, formed under the evergreens, and for an hour handshaking was indulged in, and many old and new friendships were cemented. The Florists' Club of Washington and its busy, hospitable officials are to be congratulated on the great success of this unique occasion.

The session of Wednesday morning began with the reading of various communications, appointment of several important committees and the presentation of the report of the judges in the Beatty prize competition in essays on the "Ideal Employer." The fortunate contestants out of a total of twenty-three were as follows: First prize to S. S. Skidelsky of Philadelphia; second, to Henry Eichholz, Waynesboro, Pa.; and third, to J. Austin Shaw of New York.

The selection of the location for next year's meeting brought out some eloquent addresses on the merits of Niagara Falls, N. Y., and Dayton, Ohio, and on ballot Dayton was found to be the winner with 134 votes in a total of 198, and so it is to be Dayton, Ohio, next year.

Nomination of officers was next in order. The candidates listed for the election of Thursday were as follows:

For President.—W. F. Kasting, Buffalo, N. Y.; H. B. Beatty, Pittsburgh, Pa.; and Lewis Ullrich, Tiffin, Ohio.

For Vice-President.—H. M. Altick, Dayton, Ohio.

For Secretary.—William J. Stewart, Boston; and E. A. Seidewitz, Annapolis, Md.

For Treasurer.—James Dean, Free-

port, N. Y.; C. B. Whitnall, Milwaukee, Wis.; and William Scott, Buffalo, N. Y.

Professor B. F. Galloway then presented his lecture on the work of the U. S. Department of Agriculture, illustrated with interesting stereoscopic views.

By unanimous vote a cablegram was sent on Wednesday to Ex-President W. R. Smith at Skibo Castle, as follows: "Hoot mon, we miss ye sadly!"

The ladies' luncheon on Tuesday afternoon with the wife of Vice-President Freeman, and the ladies' ride on Wednesday afternoon, were events in the lives of the fair participants that will undoubtedly be remembered as among the most delightful ever experienced.

Miss Sipe's lecture on Wednesday evening was enjoyed by a large and appreciative audience and was enthusiastically applauded.

The bowling tournament on Wednesday afternoon lasted far into the night and was a repetition of the vociferous occasions of other years. Ten teams bowled for the championship with the following result: First, Philadelphia, winning the Kramer cup, the William F. Kasting championship cup and the H. B. Beatty cup; second, Washington, winning the Whitmore loving cup; third, Baltimore, winning the Galt cup; fourth, Chicago, the National B. C. loving cup. The players on the first team were the recipients of five silver match safes donated by H. B. Beatty, and those on the second team received gold sleeve links donated by F. H. Kramer, J. J. Beneke of St. Louis won the Steinmetz team high individual prize with 597; the Stewart trophy for the greatest number of strikes was won by McRichmond; the Monument trophy for greatest number of spares by G. C. Shaffer; trophy for high man in the individual contest was won by C. L. Seybold of Baltimore, with a score of 573 against 49 entries.

ELECTION OF OFFICERS FOR 1906.

The result of the ballot for officers for 1906 was as follows: 292 ballots cast; Wm. F. Kasting elected president with 156; H. M. Altick, vice-president, 211; W. J. Stewart, secretary, 211; H. B. Beatty continues treasurer, as there was no election.

JUDGES' REPORT.

Report of the Judges on Novelties and Improved Devices on Exhibition. Vaughan's Seed Store, for Baby Rambler Rose; certificate of merit.

J. L. O'Quinn, for improved asparagus Tenissimus; certificate of merit.

H. H. Barrows & Son, for Nephrolepis Barrowsii; certificate of merit.

Department of Agriculture, for collection of new cactus, palms and lace plant; certificate of merit.

John Lewis Childs, for gladiolus America; certificate of merit.

Arthur Cowee, for gladiolus No. 1000 and No. 769; certificate of merit.

Conard & Jones Co., for canna Louisiana; certificate of merit.

E. Hippard, for steam return trap; certificate of merit.

Holly-Castle Co., for electric circulator; certificate of merit.

Cleveland Cut Flower Co., for everlasting tile bench; certificate of merit.

Dillon Greenhouse Mfg. Co., for new roof support; certificate of merit.

Quaker City Machine Co., for new ventilating arm; certificate of merit.

J. B. Owens Pottery Co., for decorative vases; certificate of merit.

F. R. Pierson Co., for improved Pierson fern; honorable mention.

Heller & Co., for mice-proof seed drawers; honorable mention.

Joseph Breck & Son, for oak jardiniere; honorable mention.

H. Bayersdorfer & Co., for new stone flower vases and brush ware baskets; honorable mention.

Reed & Keller, wedding canopies,



EDWIN LONSDALE

First Secretary of the First Florists' Club in America.

ribbon hampers and bark jardiniere; honorable mention.

M. Rice & Co., rose bowls and lamp-pots; honorable mention.

H. A. Dreer, for Bourgainvillia; highly commended.

W. K. Harris, for nephrolepis Whitmani; highly commended.

H. H. Barrows & Son, for Nephrolepis Whitmani; highly commended.

Arthur Cowee, for gladiolus No. 401; highly commended.

Dillon Greenhouse Mfg. Co., for zinc strips for laying glass; highly commended.

George C. Watson, for lawn mower sharpener; highly commended.

Roseville Pottery Co., for jardiniere; highly commended.

Lion & Wertheimer, for chiffon and violet cord; highly commended.

Schloss Bros., for new ribbons; highly commended.

Dayton Paper Novelty Co., for embossed flower boxes; highly commended.

Robert Craig & Son, for ficus pandurata; bronze medal.

Louis Wittbold, for new watering system; bronze medal.

Department of Plant Registration.

Lewis Ullrich, Tiffin, Ohio, submits for registration seedling zonal geranium, Tiffin. Flowers single, brilliant scarlet; clusters large, freely produced; foliage green, no zone; growth, free, bushy; tested eight years.

WM. J. STEWART, Secretary.

Enclosed find \$1.00 to pay my subscription for Horticulture. The paper is all right and I am glad it came out. I hope it may long live to see the great developments of the industry it so gracefully represents. H.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.



DEPARTMENT OF AGRICULTURE BUILDING
Washington, D. C.

THE IDEAL EMPLOYER

FIRST PRIZE.

Our worthy president, Mr. J. C. Vaughan, in his very able and thoughtful paper on the ideal employee, which he delivered before the Society of American Florists and Ornamental Horticulturists at St. Louis, dwells with remarkable clearness upon those qualities which, in his opinion, constitute the chief requirements of an ideal employee. Like all successful business men, employers of labor, he seems to have a pretty clear and accurate idea of the kind of men that contributes largely towards the success of a business enterprise. Men of the Garcia messenger type, knowing no fears, despising the difficulties and defying all hardships, having but one aim and object in view, and that the achievement of success for their employer, such men I say, are indeed ideal in the broadest sense of the word. Granted, then, that such men are a blessing and are well worthy of their hire, the question naturally arises who is responsible for such unselfish devotion on the part of the employee? In viewing the ideal employee, one must be sure to take a simultaneous glance at the employer himself. And this brings me to the very question I have undertaken to answer, namely, What is an ideal employer?

Briefly stated, the ideal employer is a man of a broad turn of mind, of broad views, by nature an optimist, a man of lofty aims and aspirations, one incapable of a mean, selfish deed, whose domestic life is pure and chaste, who in his relations to his fellow-men is governed not by self, but by that divine rule which prescribes, "love thy neighbor as thyself." The ideal employer is a man who, aside from his business training, has imbibed those moral truths but for which our world would be desolate and dreary, a man who, like the late George W. Childs, lives for the welfare of his fellow-men. When the Typographical Union of Philadelphia sent a delegation to Mr. Childs instructing it to impress upon the good man the needlessness of paying his employees more than their union schedule required, the worthy gentleman replied that his men earned all he gave them, that he did not intend to reduce the pay-roll, scale or no scale. Such men are indeed ideal employers and it is with such men that the ideal employee is to be found. "Like master, like man," is a truth that no sophistry can shake.

Having defined in a general way the qualities to be sought in the ideal employer, I will now attempt by way of contrast, to present a picture of the

real employer. Far be it, however, from my intention to reflect upon the honesty and integrity of the gentlemen present, most of whom, I take it for granted, are employers. The truth, however, requires me to take a pessimistic view of the aims and motives that govern some of our employers in their relations to their men. The grower who hires his man to look after his roses and carnations seldom, if ever, gives him a thought beyond that of what he can produce. If the stock is creditable well and good, else out he goes to make room for another man. On the face of it, it looks proper, of course. Yet how often do we ignore conditions and circumstances beyond the control of the best men? Good wages to the right man are paid, as a rule, not because of choice, but because of necessity. I have often met men working from sunrise till sunset and late into the cold, wintry nights for a paltry few dollars per week. At last, when life becomes burdensome and a more suitable place is found at a higher wage, the employer is ready to offer better terms. Necessity, of course, has compelled him to "compromise." Such is not the ideal employer. The "Knight of the Grip" or the man of the road is as happy as the proverbial lark when he can show "big results" and send good orders to the house. Fifteen below zero, or ninety in the shade, it matters not to him. Out he goes on his daily rounds, trudging along some country road in quest of business, faithful to his trust, like the true soldier defending a righteous cause, hopeful and persevering. Somewhere in the great city of New York or Chicago a little woman and little children feel lonesome, at times desolate and forlorn, because of the absence of their bread-winner and protector. Things look discouraging and gloomy at times on the road, despite one's best efforts. At such times a word of encouragement would be welcome indeed, but here is a letter. "Get a hustle on yourself," it says. "You must do better." "Why don't you sell to Mr. So and So?" Results are wanted regardless of all circumstances. Those who read the letters of Mr. Graham, the pork packer, to his son, which appeared periodically in the Saturday Evening Post, can see the typical real employer. Mr. Graham wants no apologies, no explanations; he wants orders for pork, spare ribs, lard, and nothing but orders. Very laudable indeed, but the ideal employer is not reflected in Mr. Graham.

The man or woman behind the counter toiling from morning till evening, and during the rush of the holiday season late into the night, finds no pleasure in the work if his or her efforts are not appreciated. Things are done in a half-hearted manner. On the other hand, be the employer of the ideal type, having the interest of his employees at heart, a sort of enthusiasm is sure to pervade the establishment. I can cite instances that came under my personal observation. The kind hearted master, who in the "good" old slavery days took a fatherly interest in his human chattels, who fed them well,

protected them, never abusing the helpless creatures, was the ideal master whose virtues are extolled to this very day by the old Southern darkies. Such a master seldom, if ever, had occasion to employ his bloodhounds in pursuit after a liberty-loving negro. "Like master, like man," faith and mutual confidence obviating the necessity of the lash, the bloodhounds, and the vengeance of the slave.

The ideal employer is he whose interests extend beyond the narrow sphere of the counting room and the shop, who sees in his employees the man rather than the producing machine. Ever on the alert, ever watchful over his own interests, he realizes at the same time that the interests of his employer must be protected as well, that the one subserves the other, that the one is impossible without the other. It is a noteworthy fact that some of the men at the head of the great industrial establishments in the west such as Proctor and Gamble of the Ivory Soap fame, and Mr. Paterson of the National Register Machine Co., are approaching the type of the ideal employer. The schools, lecture rooms, clubs, hospitals, which these gentlemen have provided for the benefit of their employees, are most gratifying signs of an ideal state of affairs obtaining in those establishments. The result of these experiments proves most conclusively that each and every employee on the place takes a keen interest in the work at hand, regarding himself, as it were, as part and parcel of a community, whose progress, as a whole, depends upon the good will and the good work of each individual member. Mr. Paterson has indeed accomplished most wonderful results. His employees are a well-bred, well-cultured class of men and women. It has been well said, that no man has a right to demand that which he cannot give in return. The ideal employee, who, like Garcia's messenger, knows no obstacles and will face danger with the fearlessness of a true hero, must have a Garcia to serve. Admiral Togo won a naval battle the like of which history does not record, because every man under his command found in him the ideal admiral, stern, exacting, and withal kind and hearted and considerate. On the other hand, the Russian sailors suffered defeat because the men in charge of the unfortunate fleet lacked the qualities of the ideal commanders.

To sum up: The ideal employer is first of all a moral man; second, he is broad-minded and considerate; third, he possesses in no small degree those qualities or virtues commonly called patience and perseverance; fourth, his own interests are inseparable from those of his employee, and fifth, he regards his business as a means rather than an end ever striving to mould his life as his conscience dictates, even aspiring to live up to the golden rule, "Love thy neighbor as thyself."

SECOND PRIZE.

This Society being composed of men of various trades, such as plant and cut flower growers or both, wholesale and retail dealers in plants or cut flowers or both, seedmen, supplymen, noveltymen, builders of greenhouse

structures and boiler-makers, and last but not least ornamental horticulturists, I presume the subject must be treated to suit every employer.

First of all, an Ideal Employer must be master of his trade, he must thoroughly understand his business, as only under these conditions will he be able to judge work done and the ability of employees fairly.

Second: The Ideal Employer should have working capital enough to pay every employee promptly in full for all services rendered on days agreed upon, particularly paying for all overtime due the employees; for if you try to squeeze here and there a few hours without remuneration out of your employees they will surely get square with you as soon as your back is turned, and you are the loser in this skin game.

Third: An Ideal Employer should, in engaging men, have a thorough understanding of what is expected of each employee, and see that each one does his duty. Have all difficulties adjusted at once, as some times a little misunderstanding may create, in the imaginary mind of employer, dissatisfaction that can upset the whole working force.

Fourth: An Ideal Employer should always be prompt, if he expects promptness from his help, start promptly, quit promptly, and if really necessary work has to be done before beginning or closing of day, pay promptly for same, asking no favors.

Fifth: An Ideal Employer should see to it that the Sabbath Day is kept holy. Have only the most necessary work done, as a day of rest and recreation will put a better crew to work at the beginning of the week, and at the hand of your Creator you will be rewarded a hundredfold.

Sixth: An Ideal Employer should be reserved in manner, should show no favor, be courteous, polite, but always firm in giving orders and advice. Profanity is an employer's worst enemy. As a child imitates the ways and manners of a parent, so does an employee adopt the ways of his master.

Seventh: An Ideal Employer should encourage his employees wherever possible. There are many ways. Provide the best of tools for every work; pleasant surroundings in workshop and home. A word of praise where such is due will do wonders. Do not expect the skilled employee to also fill the place of the common helper. Have the trade papers and other trade literature where the men can get them at their leisure. Purchase the most meritorious novelties to stimulate the interest of your employees.

And last but not least, to be an Ideal Employer and have an Ideal Place of Business, it is necessary to employ ideal help. This is very hard to find in this commercial age, and as long as no institutions are turning out ideal helpers, every employer will have to get along the best he can. By following the foregoing advice employees and conditions can be improved, as it is nine times out of ten that the employer is at fault for the condition of his or her business.

In closing I wish to say a few words to the florist section of this Society in particular. If you are master of your profession, so that you do not have to rely on foremen entirely, but that you yourself can be at the steering

wheel of your place, you will find that there is plenty of good help, that if properly treated will do its duty. In employing florists be particular to get men that will work and harmonize together. If toughs or loafers slip in get rid of them the next pay day for the good of all concerned. Good employees are generally eager to learn, and if they see and notice your superiority and your ability they will do anything for you and vote you in.

THE IDEAL EMPLOYER.

THIRD PRIZE.

It is a grand privilege and responsibility to be an "Employer." A privilege, because of the possibilities involved in opportunity to benefit one's fellowmen, a responsibility, because of the great obligation which rests upon one, to whom by birth capital or mental strength has been given the power to lead men, and to maintain the homes and fortunes of those who give their best years, their skill, their faithful service in his behalf. The infinite source of strength and consciousness of the account that must be rendered for the trust given must never be forgotten, if one is, or is to be, an "Ideal Employer." The thought of the highest, the purest and the best is always associated with the word ideal. It indicates the acme of things, the plane where there is always room—the top. To aspire to win the honor of that title is no unworthy ambition. To merit the confidence, respect, loyalty and devotion of those who toil in one's behalf, this seems to me to demonstrate the right to claim fellowship with the noble brotherhood of "Ideal Employers." One cannot be ideal in the true sense of the word, therefore who does not come up to the standard, first, as to character. A bad man morally, if he be perfect in all the other requirements of the honor, is unfit to be an employer at all. With good character as a basis, all else that is good and helpful may be built up into a perfect structure, and such a man "shall stand before kings," and is a king, crowned with the love of those he serves, and building daily a monument that will endure through all the ages.

The "Ideal Employer" then, with unsullied reputation, must next have a thorough knowledge of his business in all its details, thereby commanding the confidence of those he leads and ensuring their respect. Not only must he merit confidence but he should invite it, for by so doing he gathers new ideas and strengthens not only himself but the man he draws upon, increasing at the same time his loyalty and encouraging him to further inspirations. The "Ideal Employer" never forgets the Golden Rule. It should be the foundation of all his plans, his decisions, his enterprises. With this as the basis of his daily life he cannot make mistakes. The great unwritten law of "Whatsoever a man sows, that shall he also reap," should be stamped in letters of fire upon his brain and heart. There can be no escape from the reckoning that must be made when the sceptre is laid down and the crown of responsibility is taken away. There is no escape from the balancing of the books, and there will be no excuse taken if the records are not clean.

The "Ideal Employer" must have within him an abundance of the "milk of human kindness." He must be patient, considerate, gentle, "slow to anger," solicitous as to the personal habits, health and family happiness of his employees. He must avoid undue familiarity, must encourage the proper use of spare time, inspire by example a love for study, healthful recreation, and good companionship, and teach by precept and accomplishment the lessons of right living. He should be quick to detect and punish crime, and to discourage disloyalty by prompt dismissal of the offender. He should never stand in the way of an employee who finds opportunity for the betterment of his position, and should never make necessary a request for better wages where talent and achievement indicate the wisdom of the encouragement.

It is not having, but being, that makes the perfect man. Not the surroundings, the broad acres, the palaces, but the inner life, one's self that counts. The highest ideal is to shape one's life so that it may harmonize with the law of love. First knowledge, intelligence, then the consciousness of duty to those whose welfare is entrusted to our guidance. The "Ideal Employer" does not live simply to acquire wealth. There is a higher goal never lost sight of, the happiness that comes from promoting the happiness and success of others. The law of love, which the "Ideal Employer" makes the guiding influence of his life, involves "unselfishness, sympathy, brotherhood, generosity and justice."

The "Ideal Employer" invariably possesses the respect of those in his service. Conscientious, prompt, active, alert, he inspires others to emulate him. Demanding loyalty, he wins it by his own loyalty to the interests of those who serve him. Honest himself, he asks no adherence to any policy that will not bear the white light of investigation into all its details. He gladly invites sincere criticism. He is never unreasonable in his demands. He trusts implicitly and safely those who are worthy of his confidence. If he is truly "ideal" no competitor can ever win the loyalty of an employee whom it is to his advantage to retain. He is always judiciously liberal, he does not forget the little mementoes of the holiday season, the solicitous and practical remembrance of those who by accident or illness appear to his generous nature, the thoughtful inquiry, the little delicacies for the sick room, the tender sympathy when the heart strings are wrung by loss of loved ones. No ideal employer ever withheld these tokens of good fellowship, or because of wealth or station felt himself above the men who labor. If he be possessed of abundant wealth he should see to the building of ideal homes, to the establishment of schools and libraries, and gymnasiums, and to recreative parks and play grounds, and every convenience for the comfort and health of all whose lives are so interwoven with his own. His is a responsibility that may well give cause for serious thought, but if he be "ideal," with clean life and clear conscience as the fountains of his ambition and accomplishments, who can estimate the glory of his achievements, and the value of such a life to humanity?

NEWS OF THE CLUBS AND SOCIETIES.

CANADIAN HORTICULTURAL ASSOCIATION.

The eighth annual gathering of this association held in Montreal August 8, 9, 10 and 11, may be voted a great success. Delegates from Winnipeg to Newfoundland were present. Mr. W. A. Manda of New Jersey, was the only representative of the United States, and his contributions to the debates were much appreciated.

The meetings were held in the Natural History Museum, opening on Tuesday afternoon. Mayor Laporte extended a hearty civic welcome, to which William Gammage happily replied. The president's address, although it did not escape criticism, was marked by a breadth of outlook, and his pointed application to the needs of the moment met with a hearty reception from the delegates. On Tuesday evening F. G. Todd of Montreal gave an illustrated lecture on "Park Designs"; essays on "How to Keep a Greenhouse Attractive in Winter," by Thomas McHugh; and "How to Keep Grounds Attractive in Summer," by W. R. Burrows, followed.

Wednesday morning papers were presented by W. Gammage on carnations; Mr. Dale on roses; J. Bennett on nephrolepis; and Mr. Girwood on violets. The evening was devoted to unfinished business. It was voted that Guelph should be the place of the next meeting; the question of a trade paper was discussed; and the following officers were elected for the ensuing year: President, Mr. Fendley of Brampton; first vice-president, Mr. Hunt of Guelph; second vice-president, Mr. Walsh of Montreal; secretary, A. H. Ewing; treasurer, W. H. Simmers.

Wednesday afternoon was devoted to sight-seeing. Thursday the members were the guests of the City of Montreal, and on Friday of the Montreal Florists' Club, and were delightfully entertained. The banquet at the Weldon Hotel was an enjoyable and enthusiastic feature.

The Trade Exhibit awards were as follows: D. J. Sinclair, Toronto, certificate of merit for display of florists' supplies; Dupuy & Ferguson, Montreal, diploma for horticultural sundries; Foster Pottery, Hamilton, flower pots, highly commended; Hall & Robinson, Montreal, diploma for plants and flowers; Campbell Bros., Simcoe, Ont., certificate of merit for superb stock of gladioli.

NEWPORT HORTICULTURAL SOCIETY.

At the last meeting of this Society William C. Elliott exhibited two new varieties of sweet corn which he has named Early Pearl and Elliott's Model. Both of these varieties are of undoubted merit, Early Pearl especially being not only handsome and of delicious flavor, but also exceedingly early and prolific. The committee awarded a silver medal to Mr. Elliott for Early Pearl and a bronze medal for Elliott's Model. Two new members were admitted. At the next meeting of the society Mr. George T. Powell, president of the Agricultural Experts' Association, will give an address on "In-

sect Pests." Mr. Powell is a recognized authority on horticultural and agricultural subjects and a large audience is expected.

NEW JERSEY FLORICULTURAL SOCIETY.

"Continuous Bloom in the Border" engaged the attention of the New Jersey Floricultural Society at their monthly meeting on August 4 at their rooms in Orange. Photographs, colored, of the prominent estates in the neighborhood were in force and helped out the subject. President Kindsgrab called upon the gardeners one by one to tell how they secured a continuous bloom from May until October. The subject was opened by William Bennett who described a very unique design in formal bedding consisting of everblooming monthly roses, asters, heliotrope, verbenas, poppies, cosmos, dahlias, antirrhinum, zinnias and calendula. For "The Terraces" of O. D. Munn, of which six pictures were shown, John Hayes responded; Peter Duff for the border at "Brighthurst"; William Read for "Seven Oaks" where he has a border five hundred feet long; Arthur Bodwell for "Baronard."

To the monthly floricultural display the contributions were: Roses by D. Kindsgrab; asters by William Bennett and Charles Ashmead; phlox and some fine Black Hamburg and Muscat grapes by William Read; Thomas Rivers and Royal George peaches by Peter Duff; and a collection of vegetables by John Gervan. Of orchids, *Cypripedium Thayerianum*, hybrids of *Buxallii* x *Harrisianum*, *Oncidium macranthum* by Edwin Thomas, *Oncidium Gardneri*, *Phalaenopsis amabilis* and *Cattleya guttata* by Arthur Bodwell and a remarkably fine *Cypripedium*, *Maudae*, hybrid *Lawrenceanum* hyacinth x *callosum* Sandera by Julius Roehrs of Rutherford, N. J.

The judges were Charles Black, formerly of Oceanica and late of Harrisburg, Edward Roehrs and Joseph A. Manda.

Miscellaneous business connected with the autumn flower show was transacted. J. B. DAVIS.

NASSAU CO., N. Y., HORTICULTURAL SOCIETY.

The regular monthly meeting of this society was held August 2, at the Glen Cove Greenhouses. The chief business was the further organization of a flower show to be held in Glen Cove, and the dates fixed were November 1 and 2. Competition is open, so all are heartily invited. Already two handsome cups and other substantial prizes have been promised. The exhibits this month were chiefly fruits. President Harrison came forward with a melon, a hybrid of his own raising, of good size and shape, red fleshed and of excellent flavor. Mr. Holloway brought some fine apples and a tempting bunch of black hothouse grapes. The variety was "Madersfield Court," and the berries made no sign whatever of splitting. Splitting seems common to this grand old variety, but without doubt Mr. Holloway knows the way to success with it. Mr. Rickards of Stump and Walter Co., put forward a prize of \$3 for next meeting's best exhibit.

JOHN F. JOHNSTON.

NEW HAVEN COUNTY (CONN.) HORTICULTURAL SOCIETY.

The meeting of this society on Aug. 15 was known as Gladioli night. Mr. John Slocombe made an exhibit of over 100 spikes of his magnificent new seedling gladioli. He has about a half-acre just coming into bloom, and for size and color cannot be surpassed. A certificate of merit was awarded him.

A very fine collection of Japanese lilies was exhibited by David Ferguson. The society will have its annual outing on Aug. 24, and will visit the various parks at Bridgeport.

It is to be regretted that the Hartford Florists' Club cannot participate, as usual, in this outing, which is too early in the season for their convenience.

JOINT SHOW IN SAN FRANCISCO.

At the joint show of the California State Floral Society and the Pacific Coast Horticultural Association, to take place in this city on November 9, 10 and 11, some worth-while trophies will be competed for. This coming event is creating the greatest interest, and floriculturists and horticulturists say it will undoubtedly be equal, if not superior, to the most elaborate and artistic exhibit ever held on the coast. Following is a list of classifications of exhibits and of classes of growers the exhibits are open to:

Class A. Open to professionals only. Cut flowers, chrysanthemums, roses, carnations and violets.

Class B. Open to professional growers only. Plants, decorative and flowering.

Class C. Open the second day to dealers only. Most artistic floral design other than funeral.

Special Class. Open to growers only. Best exhibit of Japanese decorative and flowering plants and flowers.

Class D. Open to amateurs who do not employ skilled labor. Cut flowers, chrysanthemums, roses, carnations, pelargoniums and dahlias.

Class E. Plants, decorative and flowering, ferns, coleus, rex begonias, chrysanthemums and roses. For second day only.—Floral design and table decoration.

Class F. Open to amateurs who employ skilled labor. Cut flowers, chrysanthemums, roses, carnations, pelargoniums and other cut flowers, including pansies and sweet peas.

Class G. Plants, decorative and flowering. For second day only.—Most original and artistic floral design and table decoration.

MASSACHUSETTS HORTICULTURAL SOCIETY.

Annals were the feature of the show of August 12, the largest collection being that of the Harvard Botanic Garden. The seedling phlox shown by the Blue Hill Nurseries attracted much attention, and there were displays of choice dahlias by Mrs. L. Towle and W. G. Winsor and of sweet peas and asters by J. Thorpe. The first and second prizes went to Mrs. J. L. Gardner and Mrs. E. M. Gill respectively.

ST. LOUIS FLOWER SHOW

Under Auspices St. Louis Florist Club

We wish to call attention to the Shaw medal, which is offered in connection with the Shaw premiums each year when a flower show is held in St. Louis. The Shaw medal is a gold medal of \$25 value and is offered by permission of the trustees of the Missouri Botanical Garden, under provision of the will of the late Henry Shaw, and under the following requirements: "Best plant of decided merit for cultivation, not previously an article of North America commerce, and introduced to such commerce by the exhibitor during the year in which said award is made."

Haven't you a plant which you could show in competition for this valuable prize? Otto G. Koenig, Manager.

BUFFALO FLORISTS' CLUB.

The Buffalo Florists' Club held its meeting on Wednesday last, William F. Kasting in the chair. It was decided to have the picnic the latter part of the month, and Rowland Cloudsley was appointed chairman of the committee having the matter in charge. As Mr. Cloudsley has had considerable experience in that line a good time is expected.

NORTH SHORE HORTICULTURAL SOCIETY.

The North Shore Horticultural Society will hold its Summer flower show on August 23 and 24, on the grounds of the Essex County Club.

EARLY HISTORY OF INSECTICIDES.

Read Before the Hartford Florists' Club by C. N. Roodman.

In order to show that the raising of good fruits and flowers by our ancestors was carried on under difficulties and successfully accomplished largely through the persistent use of insecticides, I herewith give a short list of remedies used in olden times, some of which are in use today as standard insecticides.

In 1629, John Parkinson recommended for the canker to cut it out and then apply vinegar and cow manure.

In 1711, a spray of water with Ruta was used in France for Cantharides (fly).

In 1763, a preparation was put up in Marseilles as a remedy for plant lice, consisting of bad tobacco and water-slaked lime. Directions for use: First wet the trees infested with lice, then rub flowers of sulphur upon the insects, and it will cause them all to burst."

In 1791, "Forsyth's Composition": 1 bushel fresh cow dung, 1-2 bushel lime rubbish, 1-2 bushel wood ashes, and 1-16 bushel sand, and soap suds to make it bind. After applying sift dry powder of wood ashes and 1-6 part ashes of burnt bones. This composition was recommended to cure disease, defects, and injuries to plants, was held particularly valuable in promoting the healing of wounds, and was commonly used to fill cavities in trees.

In 1797, an article appeared in the "New England Farmer or Geographical Dictionary," where Sam Dean, D. D., Vice-President of Bowdoin College, says: "There are several experiments

I could wish to have tried for subduing these insects, such as burning brimstone under the trees in a calm time; or piling dry ashes or dry, loose sand round the roots of trees in the spring; or throwing powdered quicklime, or soot over the trees when they are wet, or sprinkling them about the beginning of June with sea water or water in which worm-wood or walnut leaves have been boiled. The liquid may be safely applied to all parts of a tree by a large wooden syringe or squirt. I should suppose that the best time for making trial of these methods would be soon after the worms are hatched, for at that stage of their existence they are tender and the more easily killed. Sometimes a frost happening at this season, has destroyed them. This, I am told, was the case in some places in the year 1799."

In "A Treatise on the Culture and Management of Fruit Trees" (Am. edition, edited by William Cobbett, 1802), Forsyth recommended the following mixture for the destruction of aphids: one-half peck unslaked lime, 32 gallons water. Allow this to stand 3 or 4 days, stirring 2 or 3 times per day. He recommended the same mixture for the destruction of red spider, but said that pure water would also answer the purpose. It is also stated that several English nurserymen used train oil (whale oil) against coccus, or scale insects on plants.

J. Thatcher, M. D., "Am. Orchardist," 1822, gives a list of the following articles to be used against the apple tree borer, an insect that is designated as a "pernicious reptile" by the author. After digging out the borer fill the cavity about the base of the tree with "flax rubbish, sea-weed, ashes, lime, sea-shells, sea-sand, mortar, rubbish, clay, tanner's bark, leather scrapings, etc."

In a Massachusetts agricultural report it is stated that Josiah Knapp of Boston in 1814 used air-slaked lime with success against the canker worm. Later experiences have shown it to be of little benefit for the canker worm, but recommended it for the slug on the leaves of fruit trees. Mr. Yates of Albany, N. Y., recommends the following solution for caterpillars: One handful wormwood, one handful Rue, two handfuls of Virginia tobacco, and two pailsful of water. In 1822 E. Perley recommended for scale insects on trees to wash them with lye or brine. On account of cheapness and ease of preparation clay paint was used very extensively. The "Caledonian Horticultural Society" of Scotland, recommended that paint in 1825.

The following solution commonly used for bed-bugs was also recommended for canker by the "Practical American Gardener," Baltimore, in 1822: Corrosive sublimate, spirits and soft water.

On Nov. 20, 1821, John Robertson read a paper before the London Horticultural Society, saying: "Sulphur is the only specific remedy for mildew on peaches." William Cobbett, in the "English Gardener," 1829, recommended for the cotton blight (wooly aphid) a wash of something strong, such as tobacco juice, or water in which potatoes have been boiled, or rubbing the part with mercurial ointment.

In "The New American Gardener," 1832, Thomas Fessenden gives a list of solutions supposed to be strong enough

to overcome the organism against which they were applied, as follows: simple water, soap-suds, tobacco water, decoctions of elder, walnut leaves, bitter herbs, pepper, lye of wood-ashes, solutions of pot and pearl ashes, water impregnated with salt, tar, turpentine, etc.; or they may be dusted with sulphur, quick-lime, or other acid substances.

Lineley's "Guide to the Orchard and Kitchen Garden," 1831, recommends vinegar for destroying insects.

In "New American Gardener," 1832, Fessenden quotes Loudon as saying: "Saline substances mixed with water are injurious to most insects with tender skins, and hot water is equally if not more powerfully injurious. Water heated to 120 or 130 degrees will not injure plants whose leaves are expanded and in some degree hardened; water at 200 degrees or upward may be poured over leafless plants."

Loudon's "Encyclopedia of Gardening," 1878, quotes Mr. Swainson as saying that hot water will destroy more aphids than by the use of tobacco water.

In "The New Am. Orchard," 1833, Dr. W. Kenrick speaks of aloe and cayenne pepper for the aphid, and quicklime, flowers of sulphur, and lampblack for a white, mealy insect and mildew on grapes.

In 1835, John Hearn recommended: strongest farm-yard drainage, soft soap, and flowers of brimstone for the destruction of insects.

White hellebore was used as early as 1842, particularly in destroying worms on gooseberry plants. In America it was not until 1858, the time when the currant worm was first noticed, that J. Harris recommended hellebore.

(To be Continued.)

Visitors in Buffalo the past week: Mr. Richard Ludwig, representing A. N. Pierson; Mr. Arthur Boof of Ithaca; G. M. Kellogg, Pleasant Hill, Mo.

M. H. WALSH

Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties: **Strong Flowering Plants; Hybrid Tea Roses**, the best and hardest varieties: **New Rambler Roses, Lady Gay, Debutante, Wedding Bells, Sweetheart, La Flamma and Minnehaha**, Strong, field grown plants to flower next summer. Best varieties **Paeonies, Phlox**, and **Hollyhocks**.

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Help of all kinds, including that for Florists, Nurseriesmen, Newsmen and the Horticultural trade generally.

FOR SALE

Greenhouse Plant consisting of 5 Houses; 2 100 ft 3 1/2 ft. x 20 wide. Good office and salesroom 20 x 25 ft., finished in hard wood, slate counters, large refrigerator, all in first-class shape. Houses all built over within three years; heated by steam, brick boiler room; 2 1/2 acres of land, good soil, houses filled with roses, carnations, mums, smilax and ferns. 2,500 carnations in field, quantities of hardy shrubs and plants on grounds. One of the best locations in the State; town of 8000 inhabitants; eight other towns center here, making this headquarters for 60 miles around. No competition. Electric cars pass the doors every hour. Ill health and age the only reason for selling. Address P. O. Box 792, Kew-Forest, N.Y.

WANTED—Young man to take charge of carnation houses. Must furnish references. Situation will be given September 1st. Address Y., care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As second man on first-class private place where orchids, palms and roses are grown. Address 28. Practical experience in general stock. Address E. L. R., Box 222, Manchester, Mass.

WANTED A quantity of school-bolts. **JAMES COAKLEY**, 26 Bradford St., Lawrence, Mass.

WANTED A good grower with \$1,000 to take a florist and market gardening place worth \$2,000 fully stocked and low market. R., care HORTICULTURE, 11 Hamilton Place, Boston.

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Request the American trade to call on them when visiting Europe and inspect their extensive Nurseries of **HARDY ORNAMENTALS, EVERGREENS, RHODODENDRONS, ROSES, Etc.**, a great specialty made of **GOLDEN PRIVET**. Preliminary trade list now ready and mailed to applicants by

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It is never too early nor too late to order the

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Am. Beauty, Fan & Sp.	30.00	to 4.00	to 25.00	to 15.00
" Extra	20.00	to 25.00	to 15.00	to 10.00
" No. 1 and Lower grades	10.00	to 15.00	to 10.00	to 5.00
Brude & 'Maid-Fan & Sp.	3.00	to 8.00	to 5.00	to 1.00
" Extra	4.00	to 5.00	to 4.00	to 5.00
" No. 1 and Lower grades	3.00	to 3.50	to 4.00	to 2.00
Liberty, Fancy & Special	1.00	to 2.50	to 3.00	to 1.00
" Extra	1.00	to 2.00	to 2.00	to 1.00
" No. 1 and Lower grades	5.00	to 6.00	to 6.00	to 4.00
Carnot and Kapering	2.00	to 4.00	to 4.00	to 1.00
Golden Gate, Ivory, Chateaux ..	5.00	to 6.00	to 3.00	to 6.00
" Extra	1.00	to 6.00	to 2.00	to 1.00
CARNATIONS				
Fancy Class	2.00	to 3.00	to 2.00	to 1.00
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Cattleyas	50.00	to 6.00	to 1.00	to 1.00
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Lily of the Valley	15.00	to 15.00	to 10.00	to 10.00
"	3.00	to 4.00	to 3.00	to 3.00
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Asters75	to 1.50	to 1.00	to .50
Mignonne	1.00	to 1.00	to 1.00	to .25
Sweet Peas20	to 1.00	to 1.00	to .25
Adiantum Cuneatum	1.00	to 7.00	to 1.00	to .75
"	1.00	to 1.00	to 1.00	to 1.00
Smilax	1.00	to 12.00	to 15.00	to 1.00
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TO BUYERS

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Flower Market Reports.

Roses and asters are being **BOSTON** received in large quantities, the latter especially being very plentiful. American Beauties have a fair demand, but only a few are to be had. Small roses are also in demand, and the supply is abundant. Gladiolus is plentiful, with but few orders. The whole market has been affected by the weather of the last few days, which has been wet and disagreeable.

A fair amount of business was done during the week. The oversupply on asters has decreased somewhat owing to the early variety being about over and the late crop just coming on. A good many short stems were received which moved rather slow, but select stuff was picked up rapidly. Some good carnations are still to be seen, but are taken quickly. Beauties of good quality move somewhat better. Teas are quite scarce and need no coaxing to be sold; Kaiserin and Carnot take the lead. Some good sweet peas are coming in. Lily of the valley was well in demand for a few days. Fancy gladioli bring a good price, while mixed colors are sold from \$1 to \$2. Plenty of green goods to be had.

Business conditions the past week were a little slow. With carnations very small and roses about the same, the demand for this stock is not very encouraging. Asters are the stand-by now. They are good in quantity, and are in adequate quantities, and sell satisfactorily. Other stock moves slowly.

Trade dull. Supply of small roses far in excess of demand, particularly lower grades. Asters plentiful, but not generally of fine quality. The quantity of carnations coming into the market is very limited. Outdoor stock abundant and cheap.

New crop Beauties are more plentiful, but other roses have shortened up considerably.

Kaiserin is better quality than Bride, which makes the latter very draggy. Bridesmaids move better. They are nothing to brag of as to quality, but are the only pink to be had at present. Carnations few and poor—little doing. Lily of the Valley good, but go a trifle slow. Asters still improving. Queen of the Market now over and the larger and more refined Truffaut and Victoria succeed. Dahlias can be had in quantity and all colors, but it is a little early yet for the finest out-flower varieties. Greens are going slow. Choice Southern Plumosa can be had at \$40 per 100. Taking the market all through, it has a genuine attack of the good old summer time.

NOTES FROM THE "TWIN CITIES."

Business in the retail sections is slow, as it is elsewhere. At this season of the year, door-yards and gardens bloom too profusely to warrant a rushing business for the florist. However, demands for funeral designs are quite plentiful, and during the past month the supply of cut flowers, roses and carnations in particular, has not even begun to equal these demands. The weather has been cold and wet for the last two weeks, and sweet peas were noticeably affected. Asters are coming in good lots and in fine condition, and these, with the dahlias are the principal attraction at the flower counters now. A recent trip through the greenhouses showed preparations for the coming winter in full swing, with a splendid lot of chrysanthemum plants in sight, vigorous and strong.

The retail florists are enjoying vacations and fishing trips, and taking plenty of time to visit our many lakes and summer resorts, in company with their wives and babies. On the 25th of July, the Florists' Association of St. Paul and Minneapolis held its annual picnic at White Bear Lake. There were bowling, foot-races and all kinds of games and contests, and we all had a splendid time and plenty of good things to eat.

In Minneapolis, Oscar Swanson, Wm. Donaldson & Co., R. A. Latham, Pathey & Thompson, George S. Murtfeldt, and the New York florists; in St. Paul, August Swanson, Herman Olson, L. L. May & Co., E. F. Limke, and Vogt Bros. are among those who dictate the "flower fashions." Altogether, we are doing a good business, and each year sees the cut flower trade of Minnesota reaching out into the smaller towns, and adding a bright touch of civilization to the wild, natural grandeur of this beautiful state.

BUSINESS CHANGES.

Mrs. R. A. Magee has sold her greenhouses at North Ashland, Mass., to F. H. Pratt.

The Misses Worn of San Francisco have abandoned their long-established flower store site opposite the Sievers & Boland store and relocated this week in much larger quarters at Stockton and Post streets.

J. W. Oxtoby, well known to the San Francisco cut flower and plant trade as a floral-work hustler, has just purchased a half interest in the veteran Domenic Company whose trade name is Fourth Street Florists.

CATALOGUES RECEIVED.

Wm. Elliott & Sons, 201 Fulton street, New York. Trade price list of bulbs, flower seeds and horticultural sundries.

Forest Nursery and Seed Co., McMinville, Tenn.—A comprehensive wholesale list of deciduous and evergreen tree seeds and seedlings.

Paconies and Perennials—A tempting list of good things, giving a procession of flowers from early spring till frost. C. S. Harrison, York, Neb.

Suzuki & Iida, 31 Barclay street, New York. Wholesale price list of Japanese bulbs, plants and seeds. The cover bears a nice colored illustration of Magnolia salicifolia.

Florists Out of Town

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Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

18 1/2 Letters, 1 1/2 or 2 inch size per 100, \$2.50
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Used by leading florists everywhere and made by all wholesale florists and supply dealers.

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84 Hawley Street, BOSTON, MASS.

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Write for Price List and Samples

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N. Stafford & Co., whose advertisement of signs, badges, etc., has been running in Horticulture, have done considerable work in their line, of a horticultural nature, including medals for several organizations and firms, and have supplied the S. A. F. badges for many years. Write them about club badges.

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A Full Line of ALL CUT FLOWERS

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Choice Cut Flowers

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THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND

BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

JAMES McMANUS, Telephone 159 Mad. Sq. 50 W. 30th St., New York

WM. GHORMLEY

Wholesale Commission Florist

57 West 28th Street - - - NEW YORK

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	Last half of Week ending Aug. 12 1905		First Half of Week beginning Aug. 14 1905			Last Half of Week ending Aug. 12 1905		First Half of Week beginning Aug. 14 1905	
ROSES									
Am. Beauty, fan and sp.....	10.00	to 20.00	10.00	to 20.00					
" extra.....	5.00	to 8.00	5.00	to 8.00					
" No. 1.....	3.00	to 5.00	3.00	to 5.00					
" Lower grades.....	.50	to 1.00	.50	to 1.00					
Bride & Maid, fan and sp.....	3.00	to 4.00	1.00	to 4.00					
" extra.....	1.50	to 2.00	1.50	to 2.00					
" No. 1.....	.50	to 1.00	.50	to 1.00					
" Lower grades.....	.25	to .35	.25	to .35					
Liberty, fan, and sp.....	10.00	to 15.00	10.00	to 15.00					
" extra.....	4.00	to 6.00	4.00	to 6.00					
" No. 1.....	2.00	to 3.00	2.00	to 3.00					
" Lower grades.....	.50	to 1.00	.50	to 1.00					
Golden Gate, best.....	.....	.....	.....	.....	
Ivory, medium.....	.....	.....	.....	.....	
Chateaux, cult.....	.....	.....	.....	.....	
Meteor.....	.50	to 3.00	.50	to 3.00					
Carnot and Kaiserin.....	.50	to 5.00	.50	to 5.00					
CARNATIONS									
Fancy Class.....	1.50	to 2.00	1.50	to 2.00					
General Class and lower grades.....	1.00	to 1.50	1.00	to 1.50					
ORCHIDS									
Cattleya.....	.....	.....	.....	.....	
BU BOUS									
Lilies.....	.....	.....	.....	.....	
Lily of the Valley.....	5.00	to 8.00	5.00	to 8.00					
.....	1.00	to 3.00	1.00	to 3.00					
MISCELLANEOUS									
Aster.....	.50	to 2.00	.50	to 2.00					
Sweet Peas, bunches.....	.....	.....	.....	.....	
Adiantum Cuneatum.....	.....	.....	.....	.....	
" Croweatum.....	.....	.....	.....	.....	
" Farleyense.....	.....	.....	.....	.....	
Smilax.....	6.00	to 8.00	6.00	to 8.00					
Asparagus Plumosus, strings.....					
Asparagus..... bunches.....					
Asparagus, Sprenger, ".....					

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New York City or Vicinity can
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	CINCINNATI Aug. 15	BALTIMORE Aug. 16	BUFFALO Aug. 15	PITTSBURG Aug. 14
ROSES				
Am. Beauty, fan, and sp.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
extra	18.00 to 20.00	12.00 to 15.00	12.00 to 15.00	12.00 to 15.00
No. 1	12.00 to 15.00	8.00 to 10.00	8.00 to 10.00	8.00 to 10.00
Lower grades	8.00 to 10.00	4.00 to 7.00	3.00 to 5.00	2.00 to 5.00
Bride and Maid, fan, and sp.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
extra	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
No. 1 and Lower 2	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Liberty, fan, and sp.	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00	6.00 to 8.00
extra	5.00 to 7.00	5.00 to 7.00	5.00 to 7.00	5.00 to 7.00
No. 1	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Carnot and Kaseim	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Golden Gate, Ivory, Chateaux	.50 to 1.00	.50 to 1.00	.50 to 1.00	.50 to 1.00
CARNATIONS				
Fancy Class	10.00 to 12.00	10.00 to 12.00	1.50 to 2.00	10.00 to 12.00
General Class	.75 to 1.00	.50 to 1.00	.50 to 1.00	.75 to 1.00
ORCHIDS				
Cattleya	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
BULBOUS				
Lilies	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Lily of the Valley	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Canna	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
MISCELLANEOUS				
Mignonette	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Sweet Peas	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Aquilegia Cuneata	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Crocus	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Farleyensis	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Smilax	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asparagus Plumosus, strings	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Spargens	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Asters	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Gladioli	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50

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List of Advertisers

Page	Page
Aschmann G.....207	Metzger A.....207
Baker Wm. J.....208	McManus J.....210
Backer & Co.....188	Michell H. F.....190
Bambrick Thos. H.....207	Milburg Cut Flower.....189
Barrow H. H. & Son.....126	Milling Charles.....211
Baur Florist Co.....188	Milburg Frank.....189
Bayersdorfer H. & Co.....211	Mitting A.....189
Boas W. J. & Co.....220	Moninger J. C.....215
Boudington A. E.....188	Murdoch J. B.....211
Bonnet Bros.....211	Nieszen Leo Co.....208
Boston Florist Letter Co.....209	Peacock L. K.....188
Breck Joseph & Sons.....190	Pennock Samuel S.....208
Breitmeier J. J. Son.....210	Perkins John J.....211
Budlong J. A.....211	Phila. Cut Flower Co.....208
Burnham Hutchings.....211	Pierston F. R. Co.....207
Pierston Co.....216	Pittsburg Cut Flower Co.....211
Burpee W. A. & Co.....190	Poehlmann Bros. Co.....211
Chicago House Wrecking Co.....215	Pye R. C.....188
Chicago Carnation Co.....188	Ransom W. & Co.....210
Clucas & Boddington.....187	Reed & Keller.....211
Cause G. H.....209	Reid Edw.....217
Coolidge Bros.....187	Reinberg Peter & Co.....210
Cottage Gardens.....186	Robinson H. M.....211
DeNijls Bros.....187	Roehrs Julius.....207
Idger Wm.....186-211	Rolker August & Son.....207
Dreier H. A.....187-215	Sander S.....207
Dysart R. J.....207	Schillo Lumber Co.....211
Elliott Wm. & Son.....188	Seckley John A.....215
Elder J. G.....215	Scott John.....207
Ernest W. H.....215	Sharp Partridge & Co.....210
Farouhar R. & J. & Co.....210	Sheridan W. F.....210
Fennell J. S.....210	Sievers J. H. & Co.....188
Fletcher I. W.....210	Siggers E. G.....215
Ford Bros.....210	Situations & Wants.....207
Forest Nursery & Seed Co.....187	Skidelsky S. S.....188
Fromm W. & Son.....207	Stattard N. C.....206
Gormley Wm.....210	Stearns T. T. Lumber Co.....215
Gray T. J. & Co.....190	Sutherland Geo. A. Co.....211
Gude A. & Bros.....209	Snacke Inds.....215
Gurney Heater Mfg. Co.....215	Silverst H. H.....215
Gutman Alex. J.....211	Thornburn J. M. & Co.....211
Hail Assn.....215	Torty Chas. H.....187
Hammond J. A.....211	Traendly & Schenck.....210
Hewes A. H. & Co.....215	Vaughan and Sperry.....208
Hill E. G.....188	Vaughan's Seed Store.....187
Hills Geo.....187	Wabash R. R.....215
Holly-Castle Cn.....216	Walsh M. H.....206
Horan E. J.....211	Ward Ralph M. Co.....187
Hunt E. J.....211	Watson G. C.....190
Johnston Heating Co.....214	Weber H. & Sons.....188
Joynt John.....207	Weich Bros.....208
Kasting W. F.....211	Weigelt & Busch.....208
King Cons. Co.....215	Weigelt & Co.....190
Kolbert A.....215	Weir Bros.....210
Lager & Hurrell.....207	Winterich C.....211
Lang Julius.....211	Winterich E. F.....208
Leuthy A. & Co.....207	Yalaha Conservatories.....210
Metropolitan Material Co.....215	Young & Nugent.....209
McCarthy N. F. & Co.....211	Young Thos. Jr.....210
	Zugelsiel Inds.....210
	Zvolnack Ant. Co.....187

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Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 52 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BEGONIA GLOIRE DE LORRAINE.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.

Joseph Breck & Sons, 47-51 N. Market St., Boston.

French and Dutch Bulbs.

For page see List of Advertisers.

Clucas & Boddington Co.,
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For page see List of Advertisers.

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For page see List of Advertisers.

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A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

For page see List of Advertisers.

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Fluore.

For page see List of Advertisers.

John H. Stevers & Co., 1251 Chestnut St., San Francisco, Cal.

Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., New York.

Carnation Plants.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
My Maryland, Cassida.

For page see List of Advertisers.

CARNATIONS.

The E. G. Hill Co., Richmond, Ind.
My Maryland, Jessica.
For page see List of Advertisers.

Backer & Co., Billerica, Mass.
Field-Grown.

For page see List of Advertisers.

A. N. Pierson, Cromwell, Conn.

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.

For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Defiance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNs.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Wiltman, Mass.
Nephrolepis Barrowsii.

For page see List of Advertisers.

H. H. Berger & Co., 17 Barclay St., New York.

Send for List.

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For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.

For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.

For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bros., 1214 F St., Washington, D. C.

For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. News & Co., Cambridge, Mass.
For page see List of Advertisers.

FLOWER POT HANDLES.

W. C. Knick, 1141 66 Greene Ave.,
Brooklyn, N. Y.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GERBERA JAMESONI.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

GLADIOLI.

John Lewis Childs,
Floral Park, N. Y.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Napa, Cal.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Washington Ave., Chicago, Ill.
For page see List of Advertisers.

Foley Mfg. Co., 141 W. 234 St., Chicago.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.
For page see List of Advertisers.

HELP.

Thos. H. Barnbrick, 34 S. 7th St.,
Philadelphia, Pa.
For page see List of Advertisers.

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Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

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Brooklyn, N. Y.
For page see List of Advertisers.

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HEATING APPARATUS.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

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New York.
For page see List of Advertisers.

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N. Y.
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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

JAPAN BAMBOO CANES.

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New York.

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Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

Ralph M. Ward & Co., 12 W. Broadway,
New York.
Bermuda Harebell Bulbs.
For page see List of Advertisers.

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H. H. Berger & Co., 47 Barclay St.,
New York.

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J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

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Heller & Co., Montclair, N. J.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St.,
New York.
Pure Culture Spawn.
For page see List of Advertisers.

NEW SPHAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and
New York.
For page see List of Advertisers.

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Lager & Hurrell, Summit, N. J.
Cattleya, Scroderae.
For page see List of Advertisers.
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PAEONIES.

Gilbert H. Wild, Saxeale, Mo.
For page see List of Advertisers.
George Holts, S. Weymouth, Mass.
For page see List of Advertisers.
Gottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

PANSY SEED.

Delays Zingibiel, Needham, Mass.
Zingibiel Giant Pansies.
For page see List of Advertisers.

H. F. Michell & Co., Philadelphia.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Julius Rogers, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

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J. S. Young, Jr., New York.
For page see List of Advertisers.

W. C. Knick, 1231 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. B. Boyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

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M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.

English-Grown Roses.
For page see List of Advertisers.

Philadelph. Bros. Co., Morton Grove, Ill.
Young Roses.
For page see List of Advertisers.

Rear Floral Co., Erie, Pa.
For page see List of Advertisers.

Siebrecht & Son, Rose Hill Nurseries,
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Killarney Rose.

A. N. Pierson, Cromwell, Conn.

SCOTT FERN.

John Scott, Kean St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall St., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Allen Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

R. & J. Farquhar & Co., 6 and 7 S. Market
St., Boston.
Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Wiegelt & Co., Erfurt, Ger.
Cyclamen Seeds.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.
Sweet Pea Christmas.
For page see List of Advertisers.

Ant. C. Zvolnnek, Round Brook, N. J.
New crop Sweet Pea Christmas.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany.
For page see List of Advertisers.

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Forest Tree and Shrub Seeds.
For page see List of Advertisers.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.
Sweet Pea Christmas.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.
N. F. McCarthy & Co., 54 Hawley St., Boston.
George A. Sutherland & Co., 34 Hawley St., Boston.
Weich Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kastling, 383 ST. Elliott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budenz, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaanan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40 Miami Av.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Jos. S. Fenrich, 48 West 30th St., New York.
Forn Bros., 48 West 28th St., New York.
Wm. Gormley, 57 W. 28th St., New York.
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Jas. A. Hammond, 115 West 30th St., New York.
E. C. Horan, 55 West 28th St., New York.
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Frank Millang, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 59 W. 28th St., New York.
Treadwell & Schueck, 44 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Penock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

GREEN HOUSES BUILDING OR PROJECTED.

London, Ont.—Fred Dick, one house.
Davenport, Ia.—Forbes & Bird, one house.

Omaha, Neb.—A. Donaghue, violet house.
Shelburne Falls, Vt.—L. S. Fife, rebuilding.

Wheeling, W. Va.—W. A. Wettlin, rebuilding.

Erie, Pa.—J. V. Laver, rose house, 26x126 feet.
Wakefield, Mass.—William Winkler, two houses.

Woodhaven, N. Y.—G. Neipp, house, 22x200 feet.

Roslyn, N. Y.—Charles F. Bertanzel, three houses.

Bay City, Mich.—Boehringer Bros., range of houses.

Chippewa Falls, Wis.—F. S. Wiegand, two houses.

Philadelphia, Pa.—Thaddeus N. Yates & Co., one house.

Rockland, Mass.—Edward Denham, carnation house, 100 feet long.

Mishawum, Mass.—William Spillsbury, range of carnation houses.

SEED TRADE

The American seed trade is now enjoying its annual midsummer siesta; such work as is now being done is in preparation for next season's business. So far as one may judge of future conditions, indications point to a good season's trade. There promises to be just enough shortage in staple goods to stimulate demand at fairly good prices. Green peas, in sympathy with the seed, have not been an abundant crop, and have generally brought satisfactory prices. The same may be said of string beans, both green and wax pods. Onions are generally reported a light crop, and of somewhat inferior quality. Other green vegetables have brought varying prices, but on the whole fairly satisfactory. One very important factor in estimating next season's business is the fact that the farmers of the country, particularly in the west, are realizing fairly good prices for their products, and though their crops in many instances are somewhat on the short side, they are finding a readier market, and doubtless getting as large net returns as though their crops had been bumper ones. So long as the farmers are prospering the seedsman will prosper.

There is some demand for the resignation of Secretary Wilson of the Department of Agriculture, but he seems to enjoy the full confidence of the President, and it will be well to suspend judgment and give him a chance. Mr. Wilson is undoubtedly an honest man, but many fear he lacks executive ability. He now has an opportunity to prove his critics wrong. It is earnestly hoped he will be able to do so.

PLANT CARRYING DEVICE.

"Of improvement there is no end," but I venture to suggest that a pair of handles for carrying tubs containing plants, such as shown in the accompanying picture, ought to find a place in the toolhouse of every gardener and ceme-



tery superintendent. They are capable of carrying a tub from 10 inches in diameter to anything that two men can handle. They obviate the neces-

sity of permanent handles which are always more or less unsightly, with the accompanying danger of the screws breaking out at the critical moment. They can be made by any blacksmith; mine are made of one-half inch wrought iron.

THOMAS WHITE.

LIST OF PATENTS.

Issued August 1, 1905.

- 795,984. Fruit and Vegetable Case. Cyrus A. Julian, Marse Bluffs, Nebr.
795,985. Machine for Thinning Rows of Plants. Franklin H. Kerr, Roosevelt, Okla.
795,992. Domestic Fruit-Drier. Hannah A. Le Mar. Des Moines, Iowa.
796,017. Potato Separator, Sprouter and Cleaner. Charles V. Rose, Watertown, Conn.
796,082. Vegetable - Sacking Device. Nels Lofstam, Detroit City, Minn.
796,150. Fruit Shears. Thomas A. Ryles, Pomona, Cal.
796,156. Fruit Packing Machine. Silvert H. Shelley, San Jose, Cal.
796,160. Grafting Machine. Darius B. Speer, Bluegrass, Iowa.
796,214. Plant-Support. Wm. Hughes, Upland, Pa.
796,326. Grass-Catching Attachment for Lawn-Mowers. Chester K. Hann, Columbus, Ohio.

A patent (No. 796,027) has been granted to Louis Wittbold of Chicago for improvement in watering systems and nozzles for use in greenhouses, the object of the invention being to provide means for simultaneously watering entire rows of plants by a spray of water projected at a suitable angle with respect to the benches and to so construct and arrange the discharging nozzles that a broad fan-shaped spray of water will be projected in a continuous and uniform sheet throughout the entire length of the bench.

Issued Aug. 8, 1905.

- 796,461. Artificial Shading for Gardening. Harry D. Shimer, Muskegon, Mich., assignor to Muskegon Ginsing Co., Muskegon, Mich.
796,500. Packing, Shipping and Display Frame for Cut Flowers. John M. Clark, Des Moines, Iowa, assignor to J. M. Clark Manufacturing Co., Des Moines, Iowa.
796,590. Irrigating Apparatus. Joseph H. Martin, Riverside, Cal.
796,592. Vineyard-Hoe. Hans Mathiesen, Livermore, Cal.
796,741. Tree-Guard. Marshall B. Lloyd, Minneapolis, Minn.
796,811. Motor Lawn-Mower and Sweeper. William H. Coldwell and Harry T. Coldwell, Newburgh, N. Y.
796,812. Land Rolling Device. William H. and Harry T. Coldwell, Newburgh, N. Y.
796,955. Hose-Holder. Alfred G. Burton, Denver, Col.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

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JOHNSTON HEATING CO., 1133

Materials furnished and erected. Write for booklet on BERNHARD Boilers, the new features in this boiler will interest you.

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H. H. SYLVESTER Mason and Builder

818 Tremont Building
Boston, Mass.

Greenhouse

Mason Work
a Specialty

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GREENHOUSE WRECKERS

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BROOKLYN, N. Y.

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CAVEATS, TRADE MARKS,
COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Attorney's fee not due until patent is secured. PERSONAL ATTENTION GIVEN - 10 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly - Eleventh year - terms, \$1. a year.

E. G. SIGGERS, 918 F St., N. W.,
WASHINGTON, D. C.

Holds Glass Firmly

See the Point

PEERLESS

Glazing Points are the best. No rubber or oil. Box of 1,000 points 75 cts. postpaid.

HENRY A. DEER,
111 Chestnut St., Phila., Pa.

CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL

JOHN & MONINGER CO. 412 to 422
HAWTHORNE AV. CHICAGO.

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FOLLOW THE FLAG

The Wabash Railroad Company

carries a high standard,
one it is safe to follow wherever it leads.
It operates many through sleeping car lines from
the East and the West to Chicago and
St. Louis. For information
regarding these lines; for rates or to secure
berths, call on or write to

H. B. McCLELLAN, General Eastern Agt.
New York, N. Y.

J. D. McBEATH, N.E.P.A., Boston, Mass.

C. S. CRANE, G. P. & T. A., St. Louis, Mo.

Or to your nearest railroad ticket agent. They all sell tickets
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SEND FOR CATALOGUE OF SCOLLY HOT WATER and STEAM BOILERS

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73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

Standard Flower.. **POTS**

If your greenhouses are within 65 miles of
the Capital, write us, we can save you money.

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Ask for our Special Catalogue No. 144 describing
Boiler Tubes, Boilers, Tubes, as well as lumber and sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO. NEPONSET, BOSTON, MASS.

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What the Trade says about the Peerless Glass Repair Clamp.

"I can heartily endorse your Clamp as something
indispensable. It is easily and quickly adjusted and
will last in durability. Every florist ought to have some
of the 'PEERLESS REPAIR CLAMPS' ready in
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For a sample address A. KLOKNER,

Wauwatosa, Wis.

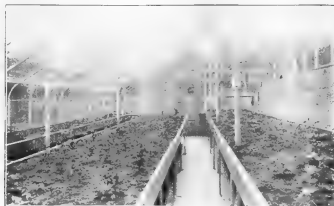
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get a date when you are hit. For particulars address
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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEAVY PLASTER WORKING CO.
NEW YORK OFFICE 11 FIFTH AVE. 74 FRANKLIN ST. BOSTON



Interior view of "133" bar greenhouse designed and erected for Mrs. A. A. Andersen, Greenwich, Ct.

AFTER ERECTING A GREENHOUSE

it is rather late to consider the matter of heating and ventilating — It is as much importance to *stop right* as to *start right* — that is if you want results.

We have this boiler, piping and ventilating thing down to a pretty fine point and are not slow in telling you what we know about them — that is if you give us a chance. Start off with one of our catalogs.

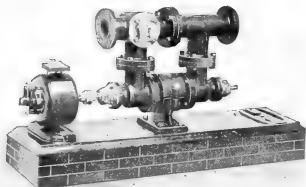
BURNHAM HITCHINGS PIERSON CO.

TREMONT BLDG., BOSTON

1133 BROADWAY, N. Y.

The ELECTRIC CIRCULATOR

INDEPENDENT HOT WATER CIRCULATION



A simple automatic device. The circulation of heating water under Perfect control as to quantity, and consequent degree of heat delivered from piping. Absolutely reliable under conditions where gravity circulation fails. Overcomes all troubles due to defective piping. Has no parts liable to get out of order. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Will save its cost in fuel in one season. Built in sizes to circulate from 1 to 1000 gallons per minute. Boiler may be placed at any desired situation. Send for descriptive circular.

We are prepared to furnish estimates for, and erect any type of greenhouse.

HOLLY-CASTLE CO., - Engineers

49 Federal Street, - - Boston, Mass.

In writing advertisers, mention Horticulture

LUMBER For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "PECKY CYPRESS" Position to Furnish

Everything in PINE and HETLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

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GLASS

FACTORIES ARE NOW CLOSED
for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

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HORTICULTURE

Vol. II.

AUGUST 26, 1905

No. 9



PRESIDENT-ELECT WM. F. KASTING.
Society of American Florists and Ornamental Horticulturists.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Killarney Plants

For 1906

Richmond Plants

WE will propagate **on orders** any number of above varieties for ensuing season. Have the largest stock of Killarney in America. The price will be \$15 per 100, \$120 per 1000, from 2 1-4 inch pots, and guarantee fine plants, but must have the orders early, as we are not in the plant trade, to ensure permanency of order we want a deposit of 20 per cent. of value with order, same will be credited on bill at delivery of plants. Correspondence solicited.

BENJAMIN DORRANCE

ROSE GROWERS

No. 3 DORRANCE FARM

DORRANCETON, PENNA.

FOR SALE CHEAP

Collection of

ORCHIDS

130 Plants

ONCIDIUMS DENDROBIUMS

CATTLEYAS LAELIAS

AND CYPRIPIEDUMS.

Plants in fine condition, many showing flower. List on application

PRICE \$75.00

G. HANSON

1025 S. Cameron St., HARRISBURG, PA.

Telephone Connection

CATTLEYA SCHROEDERAE

THE EASTER CATTLEYA

We take pleasure in announcing to our customers the arrival of the above superb Cattleya in perfect condition. Also Cattleya Trianae, C. labiata, C. Warneri, C. glabra, C. granulosa, Miltonia Morelana, Burlingtonia fragrans, Laelia anceps and L. autumnalis atro-rubens. Write for prices.

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Orchid Growers and Importers SUHMIT, N. J.
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ORCHIDS, PALMS BAY TREES, ETC.

JULIUS ROEHR'S CO.

RUTHERFORD, N. J.

In writing advertisers, mention Horticulture

Orchids

Largest Importers, Exporters, Growers
and Hybridists in the World

Sander, St. Albans, England

Agent, A. DIMMOCK, 31 Barclay St., NEW YORK CITY

Asparagus Plumosus Nana Seedlings

Seedlings from flats.....\$6.00 per 1000
Transplanted, large.....12.00 per 1000
Sprengeri Seedlings.....6.00 per 1000
Transplanted, large.....10.00 per 1000

Yalaha Conservatories, YALAH, Lake Co., Fla.

GODFREY ASCHMANN

1012 Ontario St., PHILADELPHIA

Importers of Arancaria exelsa, glauca, comperta, and robusta

PALMS and AZALEAS

Write for prices

In writing advertisers, mention Horticulture

W. FROMOW & SONS, Bagshot, England

Request the American trade to call on them when visiting Europe and to inspect their extensive Nurseries of **HARDY ORNAMENTALS, EVER GREENS, RHODODENDRONS, ROSES ETC.**, great specialty made of **GOLDEN PRIVET**. Preliminary trade list now ready and mailed to applicants by

AUGUST ROLKER & SONS, New York, 31 Barclay St., or P. O. Box 752
The American Agents

PURE CANADA HARD WOOD ASHES

The Best and Most Lasting Fertilizer

Good buyers know where to get good quality. Below is a sample of the orders I am booking.

My Dear Mr. Joynt

According to our conversation today you may ship me 5 large carloads of ashes to Kensico, N. Y. I want 3 car loads to spread on 40 acres of land that I intend to sow to rice this Fall, and 2 car loads for our Cemetery. Be sure you send me the Joynt brand. Very truly yours (sgd.) Rosie Carpenter, Comptroller.

Write for prices and information to JOHN JOYNT, Lucknow, Ontario, Canada.

Palms, Ferns And Decorative Plants

A Fine Lot of AZALEAS in Great Variety
A Large Assortment of Ferns for Jardinieres
Also, Arancarias, Rubbers, Pandanus, Aralias
Dracenas, Aspidistras, Marantas, Crotas
etc., etc.

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Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Rosindale, Boston, Mass.

In writing advertisers, mention Horticulture

STRONG 2 1/2 IN. STOCK FROM BENCH

NEPHROLEPIS BARROWSII

\$25.00 PER 100

Scottii Ferns.....10.00 per 100

See display ad. in HORTICULTURE May 6th

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WHITMAN, MASS.

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It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

Flowers Needed? Too Busy to go to Market? Then Order from Any of the Advertisers on These Pages. Mention HORTICULTURE.

Gerbera Jamesoni

I have a limited quantity of plants of this beautiful scarce daisy to dispose of, from 3 and 4 inch pots, which I offer at \$3.00 per doz.; \$20.00 per 100

CHARLES H. TOTTY

MADISON, N. J.

M. H. WALSH

Rose Specialist

WOODS HOLE, MASS.

Hardy Roses, the best new and old varieties: **Strong Flowering Plants; Hybrid Tea Roses**, the best and hardest varieties: **New Rambler Roses, Lady Jay, Debutante, Wedding Bells, Sweetheart, La Fiamma and Minnehaha**. Strong, field grown plants to flower next summer. Best varieties **Paconies, Phlox, and Hollyhocks**.

Catalogue describes all the above.
In writing advertisers, mention Horticulture

Forest Tree Seeds and Seedlings

Catalpa Speciosa and Black Locust in large quantities, Red Bud, Maple, Sweet Chestnut River Birch, Ozier, Dogwood, Persimmon, Elm, Ash, Sweet Gum, Tulip, Poplar, Russian Mulberry, Sycamore and **Black Walnut** Also Wistaria, Ampelopsis, Yucca and many other seedlings. Tree and Shrub seeds in large variety. Send for Trade List.

FOREST NURSERY & SEED CO.

McMinnville Tenn., R. D. No. 2.

In writing advertisers, mention Horticulture

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.

THE KERVAN COMPANY,

20 West 27th St., New York.

J. H. TROY

Mount Hissarlik Nurseries

NEW ROCHELLE, N. Y.

Tel. 5157 New Rochelle

Mgr. THE ROSARY FLOWER CO.

Tel. 2617 Mad. Sq. 24 E. 34th Street, N. Y. City

HORTICULTURE

VOL II

AUGUST 26, 1905

NO. 9

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

SUBSCRIPTION PRICE

ONE YEAR, IN ADVANCE . . .	\$1.00
TO FOREIGN COUNTRIES . . .	2.00
SINGLE COPIES05

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FULL PAGE . . .	24.00
HALF PAGE . . .	12.00
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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS OF THIS ISSUE

FRONTISPIECE—Wm. F. Kasting, Pres.-elect, S. A. F.	ECHOES FROM ENGLAND—Harry H. Thomas....	229
SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS	NEWS OF THE CLUBS AND SOCIETIES	
S. A. F. Visitors on the Steps of the Treasury Building—Illustration'	Buffalo Florists' Club.....	230
The Story of the Convention Completed.....	Massachusetts Horticultural Society.....	230
The Trade Exhibition.....	American Rose Society.....	230
Committee on President's Address.....	Cincinnati Florists' Club.....	230
Suggestions on Peony Classifications.....	SEED TRADE.....	231
Report of Judges of Essay on Ideal Employer...	CUT FLOWER MARKET REPORTS	
The Shooting Tournament.....	Baltimore, Boston, Buffalo, Louisville, Newport, Philadelphia	230
A Letter of Thanks.....	After Adjournment.....	230
Various Happenings.....	San Francisco Notes.....	230
Report of the Committee on Final Resolutions..	Personals	230
A Retrospect from Washington.....	What They Say of Us.....	230
Department of Registration.....	Aftermath G. C. W.....	230
PROMOTING HORTICULTURE AND CIVIC IMPROVEMENT AMONG CHILDREN—Miss Susan B. Sipe.....	Newport Notes.....	230
EDITORIAL	Catalogues Received.....	231
	News Notes.....	233
	Business Changes.....	233
	Greenhouses Building or Projected.....	238

LOCAL CORRESPONDENTS

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
CHICAGO, ILL.—H. A. Vent, 410 E. Division St.
CLEVELAND, O.—A. L. Hutchins, 38 Plymouth St.
CINCINNATI, O.—Albert J. Gray, 129 E. Third St.
DENVER, COLO.—N. A. Benson, 1352 So. Sherman Av.
INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL—Edgar Elvin, 114 University St.

NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, 1614 Ludlow St.
PROVIDENCE, R. I.—T. J. Johnston, 171 Weybosset St.
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WASHINGTON, D. C.—Z. D. Blackstone, 14th and H Streets, N. W.

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L. longiflorum Doe1 7-9 (200 in a case)	7.50	12.00	
L. " giganteum 7-9 (300 in a case)	8.00	22.50	

ARTHUR T. BODDINGTON

SEEDSMAN

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In writing advertisers, mention Horticulture

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A shade deeper than Lawson, blooms four to four and one half inches across, full and regular, stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

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Seed taken of only selected flowers and well-bred stock. Non better.

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Seed of above strain, new crop, \$5.00 per 1000.

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"The Cyclamen seedlings arrived to-day in good shape. We are well pleased and are glad to know that by packing properly plants will stand the trip."

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Field Grown Carnation Plants

White—Queen Louise, Vesper, The Queen, Boston Market.

Pink—Lawson, Enchantress, Fair Maid, Gloriana, Indianapolis.

Crimson—Harlowarden.

Variegated—Prosperity, Mrs. Patten.

Scarlet—Flamingo.

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Field Grown Plants
"FIANCEE"

\$15.00 per 100 \$125 per 1000

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STERILIZED SHEEP MANURE

\$20.00 a TON
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WM. ELLIOTT & SONS

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My Maryland
pure white

JESSICA

red and white variegated

Two great carnations for 1906
\$2.50 per doz., \$12 per 100
\$100 per 1000

Are you shrewd in business? Yes? Then write us immediately concerning these two grand carnations, or see us at the Washington Convention.

The E. C. HILL CO.
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CORRESPONDENCE SOLICITED

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Carnation Grower
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We are now booking orders for

Lilium Harrisii
Lilium Longiflorum
Roman Hyacinths
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Wholesale Price List Now Ready

CYCAS REVOLUTA at \$8.00 per 100 lbs.

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New Crop Seed

of my well-known

Christmas Sweet Peas

ZVOLANER'S CHRISTMAS PINK; FLOR-
ENCE DENZER pure white, \$2.00 per lb. - 75c.
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MAS WHITE (new black seeded), 2 oz. 75c.,
mailed free.

All these peas, if sown the first days in Sep-
tember, will bloom for Christmas and all win-
ter. This seed is sold only in my original pack-
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from Horticulture's Advertisers.



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Michell's Pure Culture Spawn

Pure Culture Mushroom Spawn. Made in America, and after years of careful experimenting, it has finally been pronounced faultless. We have arranged to represent the most reliable of American spawn makers and are now booking orders for delivery, commencing about July 15th. Pure culture spawn is claimed to be far superior to the English, from the fact that it produces much heavier crops and comes into bearing two weeks sooner.

Prices, 10 bricks, \$1.50 per 25, \$4.00 per 50, \$7.50 per 75, \$14.00 per 100, \$19.00

ENGLISH MILLTRACK SPAWN.

three weeks. Per brick, 15c. per dozen, 1.40. \$1.50 per 100 lbs. \$6.00 per 100 lbs. \$55.00, 250 lbs. or over at 1b. rates.)

STOCKS of all Bulbs now arriving. Send us your list of wants. We are headquarters. Wholesale List now ready.

Henry F. Michell Co., Bulb Importers and Growers 1018 Market Street, Philadelphia, Pa.

RAWSON'S BERMUDA GROWN Harrisii and Freesias

Now ready for delivery. We are ready to book orders for

LILIAM LONGIFLORUM
ROMAN HYACINTHS
PAPERWHITE GRANDIFLORA

and other forcing bulbs. Our Florists' List is now ready; write for it. Surely something in it will interest you.



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Blue List of Wholesale Prices mailed only to those who plant for profit.

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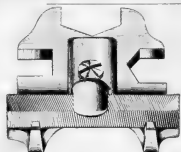
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We carry in stock duplicate parts leading machines
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Inexpensive
A Child Can Use It
Will Last a Lifetime

Highly commended by the Society
of American Florists at the recent
Washington convention

Only 75c. postpaid. Liberal Discount to
Agents

G. C. Watson, 1614 Ludlow St., Pa.

Zirngiebel Giant Pansies

Market and Fancy Strains.
New crop Seed of those well known unrivalled
Pansies, ready now, in trade packages at ONE
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Seeds of Hardy Perennial Flowers

Sown in June and July will germinate and give excellent
stock for transplanting in the Fall.

If you want the choicest strains in Flower Seeds write us. Catalogue mailed upon application.

R. & J. FARQUHAR & CO., 6 and 7 SOUTH MARKET ST. BOSTON

Society of American Florists and Ornamental Horticulturists

The Story of the Convention Completed



S. A. F. VISITORS ON THE STEPS OF THE TREASURY BUILDING AT WASHINGTON, D. C., AUGUST 18, 1905

On Friday afternoon, August 18, the members of the S. A. F., and their ladies, with the Florists' Club of Washington, were the guests of the Gardeners' Club of Baltimore, under whose escort they enjoyed a ride through that city and, in the evening, a steamboat excursion on the Chesapeake Bay.

The visitors arrived at Baltimore on special trains via the P. R. R. and B. & O., and were welcomed by the local committee, consisting of Messrs. N. F. Flitton, F. C. Bauer, J. J. Perry, Charles L. Seybold, L. H. Moss, Robert Halliday, William Fraser, Robert L. Graham, J. A. Cooke, R. Vincent, Jr., E. A. Seidewitz, Philip B. Welsh (president), Harry H. Flitton, J. Boone and F. G. Hurry.

More than twenty vehicles, including eight-horse omnibuses, automobiles and park phaetons, making a continuous line of many blocks in length, were in waiting at the depots. Headed by a bus containing the Fourth Regiment band, the procession started on an inspection tour. Druid Hill Park and Patterson Park were visited, and at the latter the visitors were agreeably surprised by an attractive emblematic design in colored bedding plants forming two American flags, between which were the letters "S. A. F." conspicuous in high-colored plants. The journey then led through the reconstructed burnt district and ended at about 5.30 p. m. at Light Street wharf, where the steamboat Annapolis, which had been chartered for the occasion, was awaiting the sightseers.

On board the steamer an excellent collation was served immediately after leaving the wharf, and refreshments, music and dancing were enjoyed during the entire trip. The return trip was made specially interesting and memorable by the presentation of testimonials to President Vaughan of a handsome hunting-case gold watch, suitably inscribed and bearing his initials; and to Mrs. Vaughan a brooch of opals and pearls, forming a crown surmounting a bar of diamonds.

Ex-President Robert Craig of Philadelphia, being presented by Mr. Westcott, said:

Ladies and Gentlemen:—We are nearing the close of a very pleasant day. Speaking for myself, I think I can fairly say I have never had a more pleasant time than I have had at this convention. The Washington people have been so thoughtful and so kindly that we shall, none of us, ever forget their courtesy. Washington has been called, and very truly, the Paris of America; and it is without question the most beautiful city we have. A large part of the attractiveness of Washington is owing to the horticultural work that has been done there. Tree planting in Washington has been carried on with better system and greater success than in any other American city; and the landscape work, under the management of Mr. George Brown, is not excelled anywhere in America.

It has been in the minds of the officers and the managers of the S. A. F.

that something should be done to re-awaken interest in the Society; and in discussing that matter it was finally concluded that nothing that could be done would give greater impetus to the work of the Society than to hold the next session of the Society in the early spring time, when the carnations, the roses and all the horticulture products are in perfection. So that it has been arranged that our next meeting shall be in Boston, in March, and I promise you that if you will attend that convention you will be amply repaid for the journey. The business has grown to such an extent now that we cannot appreciate it unless we have an exhibition such as is contemplated under the auspices of the S. A. F. It will give us an opportunity to prove just how far things have been carried out in this country in the last twenty-one years.

Necessarily there are always men specially noted as great workers in such an achievement. I have in my mind now one man, who was a charter member of this Society, who has been the most persistent and indefatigable worker whom I know. None of you ever saw him idle, and few of you have failed to know of his doing some kindly and timely act. He is an all-round man, who has been successful in many branches of the business. He looks like a young man, but he managed in some way to get into an old man's race, in Boston, and he won out. Then they had a Baby Show and they made him the judge, and he even got out of that with credit.

Now, I want to say that we all are glad to have him as a friend. I have been asked by his friends, to hand to him, in your presence, a little testimonial of our affection and esteem for him, and I now discharge that pleasant duty.

President Vaughan, upon rising to respond, was greeted with enthusiasm. He said: Ladies and gentlemen, I think you have judged, from Mr. Craig's strenuous manner, that he has given me credit for more than I really deserve. Sometimes you see men flying around with such alertness and agility that you can almost play checkers on their coat tail, and for that reason they are accredited with doing more than they really do. Possibly I have done as much of this bustling and hustling as anyone, and it may be because of that fact that I am given credit which should be shared by others. After speaking appreciatively of the early horticultural achievements of Baltimore he continued:

I join heartily with Mr. Craig in saying that these gatherings ought to come oftener, because the more frequently we get together the better opinion we have of each other. In business rivalry a spirit of antagonism is apt to crop out as the result of competition, but when all get together we find what it is that each man is specially called upon to do and in what particular line he excels.

Mr. Vaughan then expressed his thanks for the beautiful gift with which he had been honored and assured his friends that it would always be appreciated by him as a token of their kindness and affection.

Vice-President J. R. Freeman, of Washington, D. C., was introduced and cordially greeted. He said he had been called upon to say a word or two to the delegates upon the eve of separation, after a week of pleasant personal association. He continued: As Mr. Craig has assured us, the few days you have spent in Washington have been pleasant and profitable to you, we Washingtonians are abundantly satisfied. We believe, however, that the attractions of our city rather than our own efforts have contributed largely to bring about that result.

In speaking of our retiring President, I want to say that no one who has been identified with the Society can have failed to recognize not only Mr. Vaughan's wonderful capacity to do work himself, but his ability to make other people work.

After reverting to previous pleasant relations with Mr. Vaughan, Mr. Freeman continued:

Now, coming more directly to the duty assigned me tonight, I want to remind you that it was said generations ago "It is not well for man to be alone." We recognize that to get the best efforts out of a man, to spur him on to do the best of which he is capable, to instill into him the necessary grit, the good judgment, the steady persistence that are requisite for his success, there is nothing so essential as a good, faithful, loving wife. I have had the pleasure of Mrs. Vaughan's acquaintance only a few days, but from what I have observed, and particularly from what I have heard of her, I regard her as an ideal wife and that she has been to her husband a helpmate in every sense of the

word; and when we come to consider that fact we recognize that there is not so much credit due to Mr. Vaughan after all. (Laughter and applause.) But I speak from my heart when I say that Mr. Vaughan should be congratulated upon having as his companion, to encourage and help him, such a grand woman.

I have been requested to present to Mr. Vaughan the beautiful crown I hold in my hand—which is neither so large nor so valuable as the crown she is deserving of. It is unusual in this democratic country to salute people as kings and queens, but this occasion is exceptional, and I now say to Mrs. Vaughan that she is the queen of at least the Society of American Florists, and we crown her as such.

Mrs. Vaughan, when quiet was restored, said: Ladies and gentlemen, I thank you most heartily for this beautiful gift. I thank you for all those kind words you have said. Out of the fulness of the heart the mouth ought to speak, but sometimes the heart is too full for utterance. That is my difficulty now. I thank you once more, ladies and gentlemen, for Mr. Vaughan and for myself. (Cheers.)

Mr. William B. Sands, of Baltimore, being called upon to say a few words for Baltimore, was heartily applauded. His opening remarks were in a humorous vein and kept the audience in merriment throughout, with witty allusions and anecdotes. He said that although Baltimore had suffered a great disaster, there was no disposition to feel cast down; there was still much to be thankful for. He recited the many attractions of the city in homes, parks, business facilities and enterprise. He concluded:

To touch another field: No history of American Horticulture can be written which leaves out Baltimore and contributions to beautifying and improving the garden. Where were lovelier camellias originated? Can you forget the pioneers in producing new roses? Can you make a book and omit Feast's "Queen of the Prairies," "Baltimore Belle," Cook's "Cornelia Cook," Pentland's "George Peabody," "Beauty" of Greenmount and "Woodland Margaret," the other Cook's "Souvenir of Wooten," "Mrs. Robert Garrett," "Cardinal," and half a score of others?

Don't you think that you should erect a statue of bronze to Baltimore's sturdy old German gardener, Anthony Cook (hybridizing roses for fifty years and as interested thereafter, at age ninety, for his conspicuous service to the trade in attracting George Bancroft's notice to Madam Ferdinand Jamin, that splendid rose which Mr. Field rescued from Bancroft's garden and found would force so well, and which was re-named "The American Beauty"; which is now and is likely long to remain the standard of value, beauty and profit of all commercial roses?

But Baltimore has more than traditions and memories. She has also her future before her; and there is life and vigor, hope and progress, grit and go in the old town yet. She is not a "has been" nor a "will be," but she is an "is-er." Florists of America, we welcome you cordially to the city of our love, our hopes and our pride, and not only to the land of the Oriole but to our homes, our firesides, our hearts.

Ex-President E. Gurney Hill being called upon regaled his hearers with

a number of witty stories. In conclusion he said: I was thinking today of Robert Halliday of Baltimore, a man whom we all loved, honored and respected. I believe his name appeared upon the charter of this society. He was a most honorable man, and I shall never forget the sound, practical advice he gave the officers and directorate of this organization when it was its President. We have been treated handsomely here, and I think we can all go home rejoicing over the work that has been accomplished. When you come out to Dayton, next year, you must remember that John Evans and I live but a short distance from that city; and I say to the young ladies here that we have, in the city of Richmond, the nicest lot of gentlemen to be found anywhere. The married ladies are equally welcome. Don't forget.

President-elect Wm. F. Kasting being introduced, expressed his appreciation of the hospitality of the Washington and Baltimore brethren. He continued:

I believe that the National Flower Show which is proposed to be held in Boston in March will prove one of the greatest attractions and insure one of the largest gatherings that the horticulturists of this country have ever had. I hope that every one present at this convention will try to meet us at Boston where the Rose Society and the Carnation Society will cooperate with the National Society in making the grandest display of all kinds of plants and flowers that has ever been seen in America.

THE TRADE EXHIBITION.

The following is a list of exhibitors and what they had to offer:

CLASS A.

Jas. M. Lamb, Fayetteville, N. C., sarracenias and other interesting southern native plants.

Jos. Heacock, Wyncote, Pa., decorative plants.

Siebrecht & Son, New York, palms, orchids, etc.

A. N. Pierson, Cromwell, Conn., palms and ferns.

Vaughn's Seed Stores, large collection of bulbs; also Baby Rambler roses. The Storrs & Harrison Co., dormant roses.

W. L. Schmeiske, Binghamton, N. Y., seedling geraniums.

Julius Roehrs & Co., Rutherford, N. J., a big display of palms, orchids and store plants, including many new things.

Robert Craig, Philadelphia, Pa., palms, crotons, etc.

H. H. Barrows & Son, Whitman, Mass., groups of the new and beautiful Barrowsii and Whitmanii ferns.

J. A. Peterson, Cincinnati, O., Begonia Lorraine and other well grown plants of value.

Lager & Hurrell, Summit, N. J., the usual display of handsome orchids and orchid baskets.

Leibel Ball, palms, etc.

Charles D. Ball, palms, etc.

The Templin Co., Begonia Templini.

Henry A. Dreer, Philadelphia, Pa., the usual big display of useful plants which this house makes at every convention; also a fine show of aquatics.

John Scott, Brooklyn, N. Y., a handsome group of the Scott fern, which seems to attain new beauty and adapt-

ability every time it is shown. Also *Dracaenas* and *Pandanus Veitchii*.

J. L. O'Quinn Co., Raleigh, N. C., a new asparagus.

F. R. Pierson Co., Tarrytown, N. Y., a big exhibit of Pieris and Tarrytown ferns; also florists' bulbs of high grade.

N. Studer, Washington, palms and ferns.

Ley Bros., Washington, *Adiantum hybridum*.

U. S. Department of Agriculture, Washington, a superb collection of new palms, cacti, etc.

Brown Bros. Company, Rochester, N. Y., nursery stock.

CLASS B.

John Lewis Childs, Floral Park, N. Y., gladiolus blooms, including America.

Arthur Cowee, Berlin, N. Y., gorgeous display of gladiolus blooms.

The Conard & Jones Co., West Grove, Pa., display of canna blooms.

James Vick's Sons, Rochester, N. Y., asters.

S. S. Pennock, Philadelphia, display of dahlias grown by L. K. Peacock Co.

CLASS C.

Burnham Hitchings Pierson Co., New York, heating apparatus.

Kroeschell Bros. Co., Chicago, heating apparatus.

Holly-Castle Co., Boston, electric circulator. A leading novelty which attracted much attention.

The Herendeen Mfg. Co., Geneva, N. Y., heating apparatus.

E. Hippard, Youngstown, O., steam trap.

CLASS D.

George M. Garland Co., Des Plaines, Ill., greenhouse gutters.

John C. Moninger Co., Chicago, greenhouse building material.

Quaker City Machine Co., ventilators.

Cleveland Cut Flower Co., Cleveland, O., greenhouse benching.

A. Dietrich Co., Chicago, greenhouse building material.

A. H. Hews & Co., N. Cambridge, Mass., flower pots and plant pans of every description. A practical exhibit of goods that would appeal to the practical man.

August Cortis, Wyncote, Pa., wire fastener.

Roseville Pottery Co., a very extensive exhibit of beautiful ware.

W. H. Ernest, Washington, D. C., a comprehensive exhibit of good flower pots.

S. M. Hamilton, Coshocton, O., carnation support.

E. W. Holt, New York, rubber hose.

L. L. Dillon, greenhouse construction.

A. Rasmussen, New Albany, Ind., ventilators.

CLASS E.

J. W. Sefton Mfg. Co., Anderson, Ind., folding boxes.

Peck & Keller, New York. This firm occupied the stage in the upper armory with a show of their specialties which was a revelation of good taste in arrangement. Florists' supplies of practical value were there in great variety and many new designs were shown.

Schloss Bros., New York, display of rich ribbons.

H. Bayersdorfer & Co., Philadelphia, the most complete display of new and meritorious florists' supplies ever

shown at any exhibition of the S. A. F. M. Rice & Co., Philadelphia, florists' supplies.

W. J. Boas & Co., Philadelphia, an exhibit of their well-known useful folding boxes. Messrs. Boas did a large business in this specialty.

S. S. Pennock, Philadelphia, the most complete display of ribbons for florists' use ever made, including an extensive line of new special tints.

J. Stern & Co., Philadelphia, baskets, sheaves and artificial flowers.

Lion & Wertheimer, New York, chiffon ribbons, etc., in large assortment.

Hummel & Downing Co., Milwaukee, Wis., handsome florists' boxes in special designs.

J. B. Owens Pottery Co., Zanesville, O., hanging vases and jardinières.

The Dayton Paper Novelty Co., Dayton, O., a very elaborate and beautiful display of fancy boxes.

Jos. Breck & Sons, Boston, ornamental plant tubs.

CLASS F.

Henry F. Michell Co., Philadelphia, bulbs and supplies, a complete line of seedsmen's sundries.

Arthur T. Boddington, New York, bulbs in great variety and high quality.

H. H. Berger & Co., New York, a comprehensive exhibit of high grade bulbs; also azaleas and ferns. Arranged with especial neatness.

W. P. Craig, Philadelphia, lily bulbs.

CLASS G.

The Gray Lithograph Co., New York, art calendars.

The Livingstone Seed Co., Columbus, O., florists' lamp.

H. J. Smith, Hinsdale, Mass., cut ferns and spruce.

W. C. Heller & Co., Montclair, N. J., mice-proof seed cases.

G. C. Watson, Philadelphia, Pa., a useful mower sharpener.

Thomas Collins, Hinsdale, Mass., cut evergreens.

Crowl Fern Co., Millington, Mass., hardy ferns and evergreens.

L. B. Brague, Hinsdale, Mass., cut ferns.

D. B. Long, Buffalo, floral photographs.

E. J. Schmidt, Washington, aquariums.

H. M. Robinson & Co., Boston; hardy cut evergreens.

Horticulture Publishing Co., Boston, HORTICULTURE.

A. T. De la Mare Pub. Co., New York; Florists' Exchange.

American Florist Co., Chicago, American Florist.

COMMITTEE ON PRESIDENT'S ADDRESS.

The joint committee to which was referred the President's address and a communication from the Gardeners' & Florists' Club of Boston reported as follows:—

A careful perusal of the President's address is necessary to fully appreciate its careful preparation, its comprehensive scope and its many excellent suggestions. In a broad spirit it reviews many matters of vital importance to this Society, and to do it ample justice was not possible in the limited available time that your committee could give to its consideration. A committee of the whole of the assembled con-

vention could well have spent some hours in discussion of its salient features.

Regarding the National Council of Horticulture, we recommend the adoption of the President's suggestion and the appointment of a committee to confer and co-operate if advisable.

Concerning exhibitions as uplifters and the suggestion as to a spring show year committee is of the opinion that a great and comprehensive horticultural exhibition displaying the best of our products in every branch of horticulture, as well as the allied trades, would greatly strengthen the society and bring to it many members who stand aloof for obvious reasons.

As to horticulture in public schools, this society should recognize where possible all efforts of this kind, commend them and tender its assistance to support and extend the movement. Concerning gardeners as members, your committee recognizes the force of the suggestions, and past discussions along the line of closer relations evidence the consensus of opinion as to desirability. With that sole objective your committee recommends that every organized floricultural and horticultural society or club send one delegate to our annual convention, such delegates to exercise the power of members.

The legislative committee is an important one, and it is most desirable such committee keep in touch with the situation at all times, so as to be ready to act intelligently when necessity arises.

The matters pertaining to postal reform are already in the hands of a joint committee of the nurserymen, seedsmen and florists.

The appointment of a standing committee on arbitration such as has heretofore existed is recommended.

Regarding the communication from the Gardeners and Florists' Club of Boston, and concerning the name of this Society, the name has been fitted by act of Congress at the granting of the charter and cannot be changed but by the passage of an act for that purpose.

The suggestion to have private gardeners represented upon the Executive Board of this Society is a pertinent one. Your committee concurs and recommends that this be done.

SUGGESTIONS ON PAEONY CLASSIFICATION.

From Report of Paenony Committee of the S. A. F.

The present determined effort on the part of the societies to straighten out the unfortunate tangle of paeony nomenclature is one that merits the interest and aid of every grower of this popular flower. In conjunction with this movement, the close observation and comparison to which the plants are subjected may well be taken advantage of to bring about a more useful classification of *Paonia sinensis*. The early crude distinction of these paeonies as white, red and pink is of course superseded, but much remains to be done, and a few suggestions on this line may not be amiss at the present time.

In the first place, a useful distinction in the trade, would be a division into commercial and fancy sorts. By commercial varieties, is meant such

free-blooming paeonies of clear and decided colors and double form, as are especially desirable for the cut-flower trade. Fancy paeonies, on the other hand, would include many of the most beautiful sorts, which either by slower increase, less abundant blooms or some peculiarity of form or coloring, are adapted for the general cut flower market.

La Tulipe, Golden Harvest, Proflera Tricolor, are mentioned as examples of the fancy pæony. Of course all the varieties classed as commercial are adapted also for private use under certain conditions, but the contrary does not apply. Their adaptability for lawn bedding should also be taken into consideration, for some of the varieties which make handsome specimen flowers are the least attractive of plants when not in bloom. As a good example, let us contrast Festiva Maxima, which prostrates a handsome flower with a very long stem, and has no superior in the cut flower market, with Festiva, the flower of which is almost its equal, but which forms a handsome round bush with abundant dark green foliage, which is quite ornamental after the blooming period is over.

The period of blooming is another factor to be taken into account. There are certain kinds of paeonies which are, so far as shape, color, size and texture are concerned, identically alike and no man living could detect any difference between the latest bloom of the one variety and the earliest flower of the other, but the possession of the two sorts lengthen the blooming season from eight to fourteen days, and this difference alone determines their claim to distinctness.

We submit the following list of paeonies as being the best twelve for general cultivation, it being understood that the varieties named will extend the season of flowering from early to late. The first to flower are Tenuifolia, both single and double; then comes the Officials, or what is commonly termed the "Grandmother's peony," flowers very dark crimson, also white. The others recommended are Festiva Maxima, Pottsi alba, Mons Jules Elie, Livingston, Delicatissima, Richardson's Rubra Superba, Giganthea, Couronne d'Or, Louis Van Houttii, Delachil.

Your committee are of the opinion that they should request the co-operation of the Peony Society for the purpose of straightening the nomenclature and classification of the peony.

EDWIN LONSDALL.

J. T. TEMPLE.

PETER BISSET.

REPORT OF JUDGES OF ESSAYS ON IDEAL EMPLOYER.

A paper read by President Vaughan at last year's convention, entitled "The Ideal Employee," lead to an offer of a prize of \$50 by Treasurer Beatty, to be divided into three parts, \$25, \$15, \$10, and awarded as three prizes for essays, ranking—first, second and third, on the topic of "The Ideal Employer." The committee appointed to examine the essays and decide upon their merits examined the entire 23 essays submitted, going individually over each, and then comparing the whole, the committee sitting collectively. Through the majority of the papers, which were marked alphabetically, no names being

known to the committee until the work was done, a uniform set of thoughts pervaded the whole; difference of expression and composition making it apparent that a composite paper of high character could be made out, several of the papers were so close in expressive sentiment and diction as to bring them almost equal, but in these particular ones expressions foreign to the subject were added which forbade their ranking as high as they might. The result of the work is that the first prize \$25, is awarded to S. S. Skidelsky, Philadelphia; second prize, \$15, is awarded to Henry Elchholz, Waynesboro, Pa.; third prize, \$10, is awarded to J. Austin Shaw, New York.

THE SHOOTING TOURNAMENT.

This interesting feature of the sports department of the convention took place on the grounds of the Analostan Gun Club. As elsewhere, the busy representatives of the Florists' Club of Washington were on the alert to see that everybody was supplied with material refreshment. The shoot was under the management of Z. D. Blackstone and John Westcott.

In the team contest Philadelphia won with 98 out of 125. For the highest individual scores, W. K. Harris and George Anderson were tied at 23 out of 25. The prize, a fishing rod and reel, is to be deposited at the Barnegat Club for joint use.

In the championship shoot, George Anderson of Philadelphia, and H. Brown of Richmond, Ind., tied, with a score of 45 out of 50. They declined to shoot off the tie, and each tried to induce the other to accept the prize. At last accounts Mr. Anderson held it. H. M. Altick of Dayton, O., was third with a score of 42.

In the consolation match, Burdett of Washington, was first, F. Bailey of Washington, second, Blackstone of Washington, third, Smith of Philadelphia, fourth, and Scott of Buffalo, fifth.

REPORT OF COMMITTEE ON SPRING EXHIBITION.

Your committee reports that it is the unanimous opinion of the members thereof that there should be a spring meeting of the S. A. F., and an exhibition of plants and cut flowers, national in its character, should be held in connection therewith some time next March in Boston, Mass., and that, if possible the co-operation of the Rose and Carnation Societies be secured. The said meeting and exhibition should continue three days, and all arrangements should be carried out by the officers and executive committee of the S. A. F., who should have full power to add to their number, provided that your committee succeed in raising a guarantee fund of \$10,000, to defray expenses of the proposed exhibition.

The committee advise that the next succeeding annual meeting and exhibition be held in Chicago in 1907.

(Signed)

J. C. VAUGHAN.
ALEX. MONTGOMERY.
PETER FISHER.
E. G. HILL.
A. HERRINGTON.
ROBERT CRAIG.

A LETTER OF THANKS.

Washington, D. C., Aug. 20, 1905.

Dear Mr. Editor,—May I through the columns of your esteemed paper express my thanks and appreciation to the ladies of the S. A. F. O. H. for the beautiful cut glass ice cream dish and silver spoon they presented to me.

At the time of the presentation my surprise was so great and my heart so full, that I could not find words to express my thanks, and could only give evidence to my feelings through woman's greatest consoler—tears.

Again thanking all and especially the originators of the "happy thought."

I am yours most respectfully,
MRS. JOS. R. FREEMAN.

VARIOUS HAPPENINGS.

In a supplementary report the judges awarded a certificate of merit to August Cort & Son for a stake fastener.

The only special exhibits of American grown bulbs was made by Post Bros., of Eltrick, Va., who sent samples of healthy-looking narcissi in four varieties.

The committee on contributions to the Vilmorin memorial fund reported having collected \$112.15 and turned over the amount to Prof. Sargent. The number of contributors was eighty-nine.

The immortelle flag contest for prizes offered by H. Bayersdorfer & Co., brought out two very handsome pieces of work by artists with A. Gude and Bro. and Z. D. Blackstone. These were displayed on the stage at Masonic Hall.

The ladies to the number of forty had a glorious time at the Y. M. C. A. bowling alleys on Thursday afternoon and some of them made a more creditable record, everything considered, than did the male representatives from their respective towns. Nineteen prizes were won.

A very sad occurrence in connection with the convention was the death of L. E. Dake. Mr. Dake was present as the representative of Brown Bros., Rochester, N. Y., and joined the society on Tuesday. On Thursday evening he was taken suddenly ill and died an hour after being carried to the emergency hospital.

A beautiful masonic charm was presented by the exhibitors to George H. Cooke, superintendent, and a diamond pin to Lewis Freeman, assistant superintendent, in recognition of their efficiency and courtesy in the performance of their duties. The presentation speeches were made by E. A. Seidewitz and Harry Bayersdorfer.

On Thursday evening after the lecture the officers-elect were called to the stage and each responded briefly amid much enthusiasm. The bowling trophies were then presented to their several winners, J. D. Carmody officiating as spokesman in his characteristic witty manner. The trophies won at the shooting contest had been distributed at the gun club's grounds in the afternoon, this duty being performed by Col. E. B. Bay.

Vice-President Freeman's store on 13th street, was open for the reception and entertainment of visitors after the closing session of the Society on Thursday evening. No less than two

hundred members called and spent a merry hour. The store was gaily decorated with bunting and greenery, an orchestra furnished music, and light refreshments were served until far past the midnight hour. J. D. Carmody's contribution to the hilarity of the occasion was as follows:

"When florists meet
Each other greet
In times of recreation,
'Tis right, I think,
To eat and drink
And have a jollification.
So crack your jokes
Like other folks,
Let joy be unconfined;
And from the bowl
That cheers the soul
Drink health to all mankind."

REPORT OF THE COMMITTEE ON FINAL RESOLUTIONS.

WHEREAS, The citizens of Washington, particularly the Florists' Club of Washington, have tendered to us a most hearty welcome, and have made our stay in their beautiful city an occasion long to be remembered, therefore be it

RESOLVED, That they be tendered the thanks of the Society.

RESOLVED, That we tender to the Honorable B. F. Macfarland and to Secretary Wilson of the Department of Agriculture the thanks of the Society, also to Professor Galloway for his entertaining lecture.

RESOLVED, That thanks are especially due to Vice-President Freeman and Superintendent Cooke, who made our exhibition the great success that marked it.

Resolved, That thanks of the Society be tendered to Miss Sipe for her entertaining lecture.

Resolved, That the thanks of the Society be tendered to Mr. George W. Brown, superintendent of public buildings and grounds, and also to Colonel Burr, for exhibition and drill by United States Engineer Corps, with full regimental band.

Resolved, That on behalf of our ladies the thanks of the Society be extended to Mrs. Freeman and the Florists' Club of Washington for their untiring efforts to please and entertain them, and they also express their warmest gratitude for the hospitality extended to them, and upon their return home they will ever remember the kindly effort of their Washington friends.

Resolved, That the thanks of the Society be extended to President Gude and Vice-President Freeman and the members of the Florists' Club of Washington for the mastery way in which they handled every detail of the duties incident to their offices, and for their grand entertainment and lawn party to our President, and Society members, Tuesday evening.

Resolved, That a vote of thanks be extended to Mr. Oglesby Paul, of Philadelphia, for his able and illustrated lecture of "The Ideal Home." Also, to the Baltimore Club for their kind invitation to their city.

Signed,
PETER FISHER,
JOHN B. NUGENT, Jr.,
WESLEY GREENE.

A RETROSPECT FROM WASHINGTON.

With the ending of the week our convention visitors have disappeared

as completely as the morning dew before the sun, and thus the official proceedings and personal incidents of the twenty-first annual convention of the S. A. F. become matters of history.

All during Saturday the different flower stores were places of rendezvous for the visitors still in town, where all the incidents of the convention were freely and enthusiastically discussed and farewell greetings exchanged. Unstinted praise was given to those who have worked so hard and faithfully for the success of every detail in connection with the convention. Speaking first from a social standpoint, it seems to have been one of the most successful conventions in the history of the S. A. F. Indeed, among all the visitors not one unfavorable comment has been heard as to the quantity and quality of entertainment offered for our guests.

The reception to President Vaughan was not only a surprise to the visitors, but far exceeded the expectations of our own members. It is impossible for any one who had not seen that bare lawn before it was made ready for the occasion to realize the amount of work which was required to make it such a scene of beauty. All of those numerous trees which that night were ablaze with flowers and ablaze with electric lights, had been borrowed from the woods.

This event was appropriately followed up the next day by the beautiful luncheon tendered the ladies by Mrs. Joseph R. Freeman. During the entire week the Freeman store was "open house," and in practical disregard of business. As the genial proprietor very fittingly expressed it in his speech on the boat at Baltimore, in southern cities when business interferes with pleasure, they usually let business go; and just so it was here.

The ladies' carriage ride on Wednesday afternoon, and the trolley ride Thursday morning, with luncheon following at the Library of Congress cafe, as well as the bowling and shooting events, will long be remembered by those present.

To us it seemed that the business sessions of the convention were very well supported; the exhibition was also a grand one, and so, viewed from every standpoint, the convention was a great success. For whatever labor or sacrifice the members of the Florists' Club of Washington were called upon to make, they feel that they were amply repaid by the honor of the presence of our distinguished guests from far and near, and by the universal verdict which seems to have gone up as if from one voice, "Well done thou good and faithful servants."

PROMOTING HORTICULTURE AND CIVIC IMPROVEMENT AMONG CHILDREN.

A Lecture by Miss Susan R. Sipe Before the Society of American Florists.

Statistics taken in the training school for teachers, known as Normal School No. 1 of Washington, D. C. show that two-thirds of the students, young ladies from eighteen to twenty years of age, have never put a seed into the ground. They have little knowledge of the preparation of the soil for their home gardens; one student attempts to dig with a trowel her entire yard to the depth of three feet to plant coreopsis seed. The lack of

general information in regard to the common flowers and vegetables among these girls who have just finished our high schools is astonishing. One girl did not know peas when the pods were on the vines. Only one girl in a class of twenty-four knew positively that it did not take two seasons to mature radishes. The common garden flowers, zinnia, scarlet sage, cockscomb, pinks, are simply flowers and nothing more. And these young ladies are to be the public school teachers of the city!

Realizing that the teachers must be trained before the children can be reached, the Department of Agriculture is urging the establishment of elementary courses in horticulture and agriculture in all normal schools and is using the normal schools at Washington to demonstrate its ideas as to what such courses should teach.

Three years ago, Dr. B. T. Galloway, chief of the Bureau of Plant Industry, through whose efforts the work in Washington has been accomplished, sent one of the Department experts to the normal school to present a simple lecture form such information would be helpful to the students in planning and planting home gardens. Each student was required, and has been every season since, to improve some portion of her home surroundings; 175 students have taken the course since its establishment. As the work is legitimate school work, every garden has been inspected by the teacher in charge and suggestions given were necessary. Of eighty-five gardens visited last spring but three were failures and these were from obstacles too difficult for the young gardener to surmount. Every teacher should have her own garden, large or small, perhaps only a window box, if she hopes to improve the children under her charge. My experience has been that so much pleasure is to be gotten from watching the garden to its full fruit that the teacher is anxious to give others the same happiness that she has had so that the teaching is a delight and not a burden.

Last winter a large greenhouse on the Department grounds was assigned the school, and facilities are now at hand for giving both theoretical and practical instructions to the student-teachers. Necessarily for practice, so much material is propagated that the school has become the supply department for plants for school ground decoration throughout the city. Such impetus has been given by this means to the improvement of school grounds that where three years ago there was but one school in the District whose grounds showed care, the rest were neglected, now one hundred and twenty of the one hundred and twenty-four buildings for graded schools have gardens. But few of these are pretentious, but whatever has been done has been done by the children. They have brought tools from home and given the labor; shrubbery has been bought by the teachers or donated by parents and some of our public-spirited florists, and seeds for flowers and lawn grass have been given generously by the Department of Agriculture. These school grounds have inspired the children for home planting so that a local seedsman sold to them 120,000 penny packages of seed in the spring.

(To be Continued.)

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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WM. J. STEWART, Editor and Manager.

The prize essay project brought out some very clever contributions. Its unexpected popularity seems to indicate a line on which attention may be focused in future conventions with assurance of success in a direction hitherto untried.

The experiment of allowing the exhibition to remain open during the hours the society was in session seems to have demonstrated the fact that liberality in this respect is the better policy. Given a program in which all are interested, the audience will be on hand all right.

The criticism by the committee on the character of the average state vice-president's report seems to have been justified. With a few exceptions the contents of these reports show lack of study in their preparation. That many of them are barren of any feature really useful to the society or the community they are supposed to represent is unquestionably true. What is the remedy?

The suggestion that the presiding officer of the local club or similar organization be made the recognized representative of the national society, instead of the state vice-president, has much to recommend it. This plan would tend to promote the much-needed unity and continuity of purpose between the local societies and the national organization and should materially strengthen both.

The lecture by Miss Sipe which appears in another column of this paper was one of the best-enjoyed features of the recent convention because of its earnestness and pathos, its clear delivery and its direct appeal to the universal heart. The stereopticon illustrations were full of interest and wholesome suggestiveness. What a blessing it would be if we could have a Miss Sipe in every community.

The selection of Dayton carries with it the possibilities of an exhibition in connection with next year's convention of a character and magnitude heretofore impossible. If, as is hoped, facilities can be secured for an outdoor display of garden material and an exhibition of

taste and design in planting, landscape designers and dealers in ornamental nursery material will not be slow to take advantage of the opportunity.

Baltimore made good her promise and her florists proved themselves worthy brethren of the generous hosts of the national capital. There was a nobility and unselfishness in the motives and the carrying out of this delightful affair which made a deep impression on the visitors. And, grand as it was, it did not detract from but rather added lustre to the glorious and memorable Washington convention.

The bowlers never had finer alleys nor the shooters better facilities for their pastimes than at Washington. What a gap it would leave in our annual conventions were these jovial fellows with their healthy enthusiasms, their good-natured rivalries, their trophies and all, cut out of the program. To them belongs a goodly share of the credit for the close attachment of young blood to this society in a degree unapproached in any other organization of its kind.

It was in the air that new policies or, at least, new amplifications of existing policies might be looked for at the Washington Convention. That this anticipation was not without foundation is apparent as one studies the proceedings of the meeting. It is notable that the activities which have been instituted are in the line of awakened interest in the Society and its work rather than the development of any revolutionary or reactionary spirit and this augurs well for harmonious and concerted effort during the year to come.

The convention program this year showed an almost complete abandonment of essay reading. The growing indifference to this time-honored feature is undoubtedly due, in a considerable measure, to the poor delivery of many of the readers in the past. The diversified character of the society's membership has also made it difficult to hold the attention of more than an interested fraction of the attendants for any specific topic. The lecture on subjects of general interest seems better adapted to such audiences and specialized subjects are likely to find their channel, henceforth, in the "question box."

The parade and drill of the U. S. Engineer Corps on the White House grounds on Friday morning was a unique honor extended to the S. A. F.—an inspiring spectacle that will always vividly mark the memory of the convention of 1905. The perfect manœuvres, the music, the great expanse of green lawn, the rich verdure, blue sky and braising September air on an August day—all the surroundings so productive of patriotic emotions made an indelible impression and when the word was passed that the erect military figure riding at the head of the column was none other than the grandson of the beloved commander of the Union armies, then indeed, was the climax of exultant pride and enthusiasm reached.

Echoes from England

A VISITOR FROM AMERICA AND ENGLISH FRUIT

At the Royal Horticulture Society's exhibition on Tuesday last (August 1st) Mr. J. A. Pettigrew of Boston, U. S. A., sat with the members of the fruit committee, and signed his name with the names of other members in a book kept for the purpose. Mr. Pettigrew, in his official capacity had some splendid exhibits to judge. A gold medal was awarded to a collection of gooseberries shown by Messrs. James Veitch & Sons, Ltd., Chelsea. Over one hundred basketfuls were shown and in nearly as many varieties. They made a very remarkable display, when one considers that almost each basket contained a different variety. Cordon trained gooseberry trees in pots were arranged as a background to the dishes of fruit and although dwarf they bore remarkable crops of fruit. Of the standard varieties, such as Crown Bob, Whinham's Industry, Speedwell, Keen's Seedling and many more were well represented. Among the new ones were Golden Gem, Langley Gage and Langley Beauty. Mr. Pettigrew had the opportunity of seeing an exhibit of fruit from one of our best growers, Mr. Norman, head gardener to the Marquis of Salisbury. The peaches and nectarines, grapes and melons were of the highest quality and the fruit committee awarded the Hogg Memorial Medal for special cultural excellence. Mr. Pettigrew also was fortunate enough to see some of Messrs. Rivers & Sons famous pot-grown fruit trees. They showed several very fine trees in pots of a new peach of theirs called Peregrine. Altogether the exhibits before the committee of which Mr. Pettigrew was for the time being, a member, were very meritorious.

NICOTIANA SANDERAE

By now almost every gardener in this country has probably grown the new tobacco which has been so extensively advertised. It was sent out this year for the first time by Messrs. Sander & Sons, St. Albans. Some report unfavorably but those who do so must, I think, have only themselves to blame. From personal experience I can say that the new rose-colored nicotiana is all the introducers claim for it. I have tried it as a border plant and have also grown it in a tub. The more symmetrical and more effective plant of the two is the one given tub-culture and a very beautiful sight it is. The flower stems are produced freely and bear an abundance of their bright rose-colored blooms: a plant thus grown is an object of great beauty. The plant grown in the border is not so compact, it has made much larger leaves and longer flower stalks and in consequence is hardly so symmetrical. Nevertheless, it too, is very attractive. During the day the flowers droop a little and partially close but towards evening they are a perfect picture.

DAY LILIES

Several new and beautiful varieties of day lily (*Hemerocallis*) have been shown lately and at the last meeting of the Royal Horticultural Society an award of merit was given to a new one called Dr. Regel. This was shown by Mr. M. Pritchard, Christchurch, Hants. It has rich canary-yellow flowers which are freely produced. This new day lily was raised from seed sent from St. Petersburg by the late Dr. Regel under the name of H. Middendorff. Another very beautiful one is *aurantiaca* major with large, deep, yellow flowers; they are, however, sparingly produced.

NEW SHRUBS

The purple-leaved berberis is a well known and valuable decorative shrub and you may be interested to hear

of a new variety of this which was shown before the Royal Horticultural Society on August 1st and received an award of merit. It was named *macrophylla*. It is a large, dark-leaved form that should prove very effective in the garden. *Spiraea Aitchisoni* is a newly introduced species which was also shown at the exhibition on August 1st and received a similar award. It is a shrubby *spirea* of neat habit, the small creamy white flowers being arranged in dense erect panicles. This was exhibited by Sir Trevor Lawrence, president of the Royal Horticultural Society, and by Mr. Pritchard, nurseryman, Christchurch. The berberis above referred to was shown by Messrs. Paul & Son, Chestnut. *Buddleia variabilis* is a valuable shrub in this country, its purple racemes of flowers being very handsome. A new variety of this plant called *magnifica* was shown on August 1st by Messrs. J. Veitch & Sons and it also received an award of merit. An elder (*Sambucus canadensis*), a very handsome shrub with flattish heads of flowers more than 12 inches across and distinct pinnate leafage, was much admired. It was shown by Sir Trevor Lawrence and by Messrs. James Veitch & Sons. Other new plants exhibited before the Royal Horticultural Society on the same day were a new carnation named Roy Morris, a very fine bright scarlet border variety, with long stems; *Campanula carpatica* White Star, the beautiful flowers some two inches across; *Gladiolus Lady Inchiquin*, a charming flower of pale salmon coloring, the lower petals marked with red and yellow (shown by Kelway & Son).

BRITISH GARDENERS' ASSOCIATION

The newly-elected executive council held its first meeting on Friday, July 21, at the Hotel Windsor, Victoria Street. The secretary, Mr. Watson, reported the progress made since June 1. Twenty-seven new members had joined, bringing the total number up to 659 and donations amounting to £11 17s. had been received. Attention was called to the observatories of Sir William Thistleton-Dyer on the gardener movement recently published in the *Gardeners' Chronicle*, and to the remarks of the Duke of Westminster at the annual dinner of the *Gardeners' Royal Benevolent Institution* on June 16. His Grace then said: "But the life of the gardener was not literally a bed of roses, nor were his gains great. He was a skilled workman who gave an infinite amount of pleasure to the community at large by his labor and ingenuity, and yet his wages compared very unfavorably with those of skilled workmen in other branches of industry. Few gardeners could afford to lay by from their wages a sufficient sum to enable them to meet the rainy day or the inevitable prospect of old age."

The council decided to make arrangements for a conference of members and others interested, to take place in October during the great autumn fruit show of the Royal Horticultural Society. To this conference branches of the British Gardeners' Association will be invited to send delegates. A proposal to engage the services of a paid secretary to devote his whole time to the work of the association was considered, but the council decided that in the present condition of the association it would be unwise to incur the expenses of a paid secretary and a central office. The council hope before long to make arrangements for monthly meetings to take place in or near the Royal Horticultural Society's hall in Vincent Square concurrently with the meetings of the Royal Horticultural Society.

Harry H. Thomas

AFTER ADJOURNMENT.

"That horticulturalist who has crossed the peach and the nectarine and called the product the "peacharine" is taking a mean advantage of Chauncey. Three months ago he would have been sued for infringement."—New Haven Palladium.

We read in a Toronto paper the following: "They were talking about the parks of Toronto, and stated that it would be well that the department of parks of the city of Toronto be put under the care of the medical health officer."

A stupid and ridiculous proposition surely but we have a parallel case of inappropriateness in New York.

The New York Mail and Express ventures to suggest as the next triumph that Luther Burbank should achieve is the development of a species of waterproof hay which might be left out in successive downpours without injury to the hay. It believes this might be readily accomplished by crossing the common red clover with some of the common varieties of rubber plant.

SAN FRANCISCO NOTES.

Another case of flower store beautification was observed in Larkin street in the score-year-old store of Mrs. John Miller, where notable improvements have been made.

The establishment of Alex. Mann, Jr., has presented a scene of unusual activity during the week. The store front has been transformed to an up-to-date creation, and the capacity of the show windows doubled. All of which is indicative of prosperity.

The widow of the late John Poyval died suddenly last week. The floral mementoes contributed by members of the trade were numerous and beautiful. Only three days prior to this sad event Alfred Poyval, who, since the death of his father three years ago, has been conducting the store his parents had successfully carried on since the city was a small town, found it expedient to give over the store to creditors.

PERSONALS.

A. Leuthy of Roslindale, Mass., has returned from his trip to Europe.

Alfred Bunyard has taken a position with the Rosary Flower Company, 34th street, New York City.

Letters from J. A. Pettigrew indicate that he is having a most enjoyable time abroad. He will start for home on September 8.

Visiting Boston this week: Wm. Dilger of Michigan, Cut Flower Exchange, Detroit; J. D. Thompson, Joliet, Ill.; Wm. Rehm, New Orleans, La.

WHAT THEY SAY OF US.

Please find enclosed \$1.00 for Horticulture, which I like very much and wish you good success with the same.—C. B.

AFTERMATH.

An unofficial list of Washington awards which should be placed on record is as follows:

Best dressed man—P. Joseph Lynch.
Handsomest—W. F. Gude.
Noisiest—Phil Foley.
Quietest—S. S. Pennock.
Wittiest—P. Welch.
Best speech—Mrs. J. C. Vaughan.

Harry Morton Altick of Dayton, the newly elected Vice-President, is a prince of good fellows, and promises the members of the S. A. F. the time of their lives next August. He is backed by the whole town, from mice to millionaires, and wants everybody to commence right now to save up their pennies for the trip.

"More Jeromes are needed," says the Philadelphia Record. In that case the Record should speak to Mr. and Mrs. Jerome about it and not bother the rest of us.—Chicago Journal.

Good! Respectfully referred to those in the S. A. F. who are always shouting that we ought to have more members. Let them send in some and not bother the rest of us who have and are doing our share.

G. C. W.

NEWPORT NOTES.

The Newport season is now at its full height, and the demand for flowers is also correspondingly high. Perhaps the latter part of this week and all of next may bring the demand up still higher. This is looked for on account of the many entertainments scheduled for that time. One in particular, to be given by Mr. and Mrs. Pembroke Jones, promises to eclipse in grandeur and novelty anything hitherto seen in Newport, a temporary structure, to resemble an immense conservatory.

Mrs. Astor has begun to entertain lavishly. Her floral decorations, although never extremely elaborate, are nevertheless eagerly sought for on account of the prestige accruing therefrom.

BUFFALO FLORISTS' CLUB.

The annual outing of the Buffalo Florists will be held at Bedell House on Tuesday, Aug. 29. The arrangement committee is working hard to make this one of the largest if not the best held yet. The sports committee has several new features in stock which will be of much interest to the florists at large.

The program as scheduled includes a baseball game between the east and west side ladies' race, handicap half-mile race, leap frog race, standing broad jump, old men's race, hundred yards open handicap, boys' race, running broad jump, quarter mile run, three-legged race. Dinner will be served at 6 P. M., and at 7 P. M. a drive through the island will be enjoyed.

MASSACHUSETTS HORTICULTURAL SOCIETY.

At the weekly exhibition held on Saturday, August 19, there were brilliant displays of perennial phloxes for which prizes were awarded, first to Blue Hill Nurseries, second to T. C. Thurlow, and third to W. C. Winter. John Lewis Childs made a fine showing of gladioli, filling one hundred vases. He received a certificate of merit for the variety America. Among the other exhibits worthy of mention were Clerodendron fallax, from Mrs. J. L. Gardner, seedling dahlias, from Mrs. L. M. Towle, dahlias from W. C. Winter, and herbaceous border plants from Harvard Botanic Garden. As usual at this season the showing of fruit and vegetables was excellent.

AMERICAN ROSE SOCIETY.

There was a well-attended meeting of the American Rose Society at the Ebbitt House, on August 17, afternoon. A number of special prizes were contributed for next year's exhibition. The meeting resolved itself into one for the consideration of the plan for a mammoth exhibition under the auspices of the Society of American Florists, to be held at Boston, presumably at the same time as that of the American Rose Society, and a list of subscribers to a guarantee fund was started which, at the S. A. F. session in the evening, was augmented by a number of others, making a total of \$2,300 towards the proposed \$10,000 guarantee fund.

SOCIETY OF AMERICAN FLORISTS

Department of Plant Registration.

The Conard & Jones Company, West Grove, Pa., submit for registration Canna Uncle Sam: Orchid-flowering section; color bright red; foliage unusually large; height 6 to 7 feet; flowers stand more cold than the ordinary canna.

WM. J. STEWART.

Secretary.

CINCINNATI FLORISTS' SOCIETY.

At a recent meeting of the club the following officers were elected to serve for the ensuing year: President, William Murphy; vice-president, Ben. George; secretary, C. J. Ohmer; treasurer, D. Rusconi.

NOTES.

The Lenox (Mass.) Horticultural Society held a midsummer flower show at the town hall on August 15, at which cut flowers and table decorations were the prime features. The attendance was gratifyingly large.

The first annual summer exhibition of the New London County Horticultural Society was held at New London, Conn., on August 10, and was very successful. The judges were Thos. Knight of Rutherford, N. J., F. E. Conine of Stratford and Herman Lips of New Bedford.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

SEED TRADE NOTES.

It is no doubt generally known that H. H. Harries has withdrawn from the firm of Goodwin, Harries Co., but it is not as generally known that A. H. Goodwin has consolidated with W. W. Barnard & Co. Just what the style of the new firm is to be is not known outside of the parties in interest, but Goodwin, Harries Co., as a firm will no doubt cease to exist, while there will be no change in that of W. W. Barnard & Co. However, this is only conjecture. In their own good time the public will be taken into their confidence.

Onion set harvesting is in full swing, and the western crop is a fair one. One of the largest growers located near Chicago will not harvest more than half the average yield, but in other sections the yield is nearly up to average. Louisville dealers are now quoting white sets for immediate shipment at 2c. per lb., or 65c. per bushel of 32 lbs. The idea of selling 32 lbs. of sets at this time of year for a bushel is absurd, and is really 20 per cent. short in measure. Thirty-two pounds in February or March is equal to 40 lbs. in August, as the shrinkage is about 20 per cent. between August and February. Selling sets by weight is really the only just and equitable way.

The Pure Seed and Plant Co. of America, was not incorporated at Washington, D. C., as originally intended. The promoters, it seems, discovered that a law of Congress requires all firms incorporated in the District of Columbia to maintain their head or main office there, and this not being practicable in the present case, the enterprise has been launched at Indianapolis under the laws of the State of Indiana. J. A. Everitt of Indianapolis, is president, but who the other officers are is not disclosed by the prospectus. The aims and purposes of the concern are certainly large and ambitious, too much so, it would seem, to be practical.

CATALOGUES RECEIVED.

Franz De Laet, Contich, Belgium. General catalogue of cacti and other succulent plants. Freely illustrated and an exceedingly valuable reference list.

Advertising well placed hits the nail on the head every time. Let us help you to make business good.

HELLER'S
MICE
PROOF
SEED
CASES.

SEND FOR
CIRCULARS.
Heller & Co.
MONTCLAIR, N. J.

Violets, Campbells.

These are in first class condition for planting, free from disease and insects, heavily rooted, these are not rooted cuttings but plants worthy of the name. \$3.50 per 100, \$30.00 per 1000.

W. H. Thomas, Convent Sta., Morris Co. N. J.

Cottage Gardens Co.

offer 150 varieties of Peonies in their new Descriptive Catalogue now ready. Plenty of two and three year old clumps that will flower next Spring. Plant them now and save a year.

COTTAGE GARDENS CO.

Queens, L. I. N. Y.

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Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs. Information as to Special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh importation. 5c. per lb.; 50c. per 10 lbs.; \$5.00 per 100 lbs.; \$50.00 per 1000 lbs.

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AUCTION SALE OF STALLS

OF THE

Boston Co-operative Flower Market

MUSIC HALL PLACE, BOSTON, MASS.

AUGUST 30, 1905, at 9.30 A.M.

The Boston Co-operative Flower Market has decided to open its market to the Flower Growers of the Country, and the directors take pleasure in announcing their second annual sale (as above date). To anyone wishing to sell flowers in Boston we can truthfully say that we have the finest wholesale market ever opened in New England. The market is well lighted and ventilated, is centrally located both for Buyers and Growers. There are 14,000 feet of floor space. We have an ample (ice) storage room, and parties who cannot sell in person can consign flowers to the Manager, or they can sell through an agent.

We have a five years' lease and all our patrons have expressed their pleasure with our market and we hope to have a large attendance at our sale.

Anyone who cannot attend the sale can have a stall bid in for him by the Manager.

For the Directors:

WILFRID WHEELER, Clerk.

DAHLIAS

ONE HUNDRED AND THIRTY ACRES.

Roots and blooms in any quantity.

L. K. PEACOCK, Inc.
ATCC, N. J.

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When you need good men, skilled or unskilled, write:

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Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE—Glass and wood in greenhouse, 20x160, 10x12 glass. George Cartwright, Dedham, Mass.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As second man on first-class private place where orchids, palms and roses are grown. Single, 28. Practical experience in general stock. Address E. L. R., Box 222, Manchester, Mass.

WANTED—A quantity of eschschols. JAMES COAKLEY, 26 Bradford St., Lawrence, Mass.

WANTED—Young man to take charge of carnation houses. Must furnish references. Situation will be open September 1st. Address Y., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A good grower with \$1,000 to take a florist and market gardening place with \$5,000; fully stocked and fine market. R., care HORTICULTURE, 11 Hamilton Place, Boston.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

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THE LEO NIESSEN CO.

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After July 1st Store Open 7 A.M. to 6 P.M.

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Commencing June 26th will close at 6 P. M.

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American BEAUTIES

AND

QUEEN OF EDGELYS

WELCH BROS.

City Hall Cut-Flower Market

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FINE ASTERS

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—to DEALERS ONLY

	CHICAGO Aug. 27	ST. LOUIS Aug. 27	PHILA. Aug. 22	BOSTON Aug. 24
ROSES				
Am. Beauty, Fan. & Sp.	30.00	to 40.00	to 20.00	to 25.00
Extra.	20.00	to 25.00	to 12.50	to 15.00
No. 1.	10.00	to 15.00	to 5.00	to 10.00
Lower grades.	3.00	to 5.00	to 1.00	to 2.00
Bride & Maid—Fan. & Sp.	4.00	to 5.00	to 1.00	to 2.00
Extra.	3.00	to 3.50	to 4.00	to 5.00
No. 1 and Lower gr.	1.00	to 2.00	to 1.00	to 2.00
Liberty, Fancy & Special.	5.00	to 6.00	to 6.00	to 8.00
Extra.	2.00	to 4.00	to 2.00	to 3.00
No. 1.	1.00	to 2.00	to 1.00	to 2.00
Carnot and Kaiser.	5.00	to 6.00	to 6.00	to 8.00
Golden Gate, Ivory, Chateaux.	1.00	to 2.00	to 1.00	to 2.00
CARNATIONS				
Fancy Class.	2.00	to 3.00	to 1.50	to 2.00
General Class and Lower grades.	.75	to 1.50	to 1.00	to 1.50
ORCHIDS				
Cattleya.	50.00	to 60.00	to 50.00	to 60.00
BULBOUS				
Lilies.	10.00	to 15.00	to 10.00	to 15.00
Lily of the Valley.	3.00	to 4.00	to 3.00	to 4.00
MISCELLANEOUS				
Aster.	.75	to 1.50	to .50	to 1.00
Mignonne.	.20	to .50	to .10	to .25
Sweet Pea.	.20	to .50	to .10	to .25
Adiantum.	.20	to .50	to .10	to .25
Crown.	.20	to .50	to .10	to .25
Forget-me-not.	.20	to .50	to .10	to .25
Smilax.	10.00	to 12.00	to 10.00	to 12.00
Asparagus.	10.00	to 12.00	to 10.00	to 12.00
Plumosa.	20.00	to 25.00	to 20.00	to 25.00
String.	10.00	to 12.00	to 10.00	to 12.00
Bunches.	20.00	to 25.00	to 20.00	to 25.00
Spargen.	10.00	to 12.00	to 10.00	to 12.00

PHILADELPHIA CUT FLOWER CO.

1516-1518 Sansom Street, PHILADELPHIA

BEAUTIES, KAISERIN, CHOICE ASTERS

Store Closes at 6 P. M. from June 19th to Sept. 16th Daily except Saturday at 1 P. M.

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WIETOR BROS.

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From 40 to 60 Growers

We can and will take care of your Cut Flower and Supply Wants to advantage

E. F. WINTENSON CO. 45-49 Wabash CHICAGO

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CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley Violets and all Cut Flowers

PETER REINBERG WHOLESALE

CUT FLOWERS

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In writing advertisers, mention Horticulture

TO BUYERS

Patronize our advertisers, they will treat you right

Flower Market Reports.

BALTIMORE The market has changed but slightly during the past week.

Roses, especially Bridesmaids, Golden Gates and Kaiserins, are coming in finely and find ready sales. Beauties, while not in any great demand, seem able to hold their own. Harrisil and auratum lilies are plentiful and of good quality. There is an abundant supply of first-class asters, and they bring good prices. In fact, the aster seems to be the leader just now.

The present week is a very dull one in the cut flower trade. Roses are very abundant, especially the small cuts from young stock. Of American Beauty the receipts are heavier than ever before at this season. Asters are overstocked. Carnations are not plentiful, and those that come in are of poor quality as a rule. All garden flowers in quantity as usual.

BUFFALO The market has been rather dull, but towards the week-end a little floral work cleaned up the stock in fair shape. Good quality of fancy asters sell well, but there is an overabundance of short stock. The sales on gladioli have slackened up some, although fancy white and pink bring fair prices. Beauties of good quality sell readily; other roses move more slowly. There is a heavy supply of lily of the valley, sweet peas, lilies and green goods.

Visitors in Buffalo the past week: Mr. and Mrs. H. G. Berning, Mr. and Mrs. Meinhardt of St. Louis, Mr. and Mrs. H. G. Wise of East Aurora, N. Y.

The usual midsummer Louisville dullness prevails. The demand for all kinds of cut flowers is light. There are good roses to be had, but they lack buyers. Asters maintain the lead and the quality and quantity are all that can be desired.

The condition of the cut **NEWPORT** flower trade is quite satisfactory. The demand has been brisk for the past week. For cut flowers sold in stores the prices have been fully as good as that of last year at this time, and the events on the boards for the next two weeks ensure good business all round for that period. Outdoor flowers are neither as good in quality or as much in favor as formerly, making shipments from out of town heavier, and we may say, business livelier for a greater number of people. However much we may admire hardy flowers, there always remains another point to be considered, which is too apparent to need explanation. Choice stock is considered good taste, and there is plenty of choice stock, if not here otherwhers.

The cool weather the latter part of the week **DELPHIA** shortened up supplies considerably, and the market was healthy and steady for the time of year. They even had a touch of frost over in Jersey, but no damage. Dry weather is wanted now for outdoor carnations, which are wetter than desirable. Dahlias are improving rapidly, and the finer varieties are now making their appearance. There is little life to the lily of the valley market, but

asters are now extra fine and selling well.

NEWS NOTES.

Charles H. Fox is planning to erect a two-story Old English style flower store on Broad Street, Philadelphia.

Mr. Fred S. Peterson will enter the employ of Mandeville & King, seedsmen, of Rochester, N. Y., on September 4th.

The will of the late William A. Richardson gives the sum of \$200,000 towards the care of the parks of Worcester, Mass.

The Southern Nursery Association, embracing the principal fruit interests south of Baltimore, met last week in Norfolk, Va., with about seventy-five members in attendance.

The Saratoga Floral Association of Saratoga, N. Y., has been dissolved and a receiver appointed. The association's property, consisting of carnival floats, will be sold.

There is a handsome bed of Liliun auratum blooming in the exhibition grounds at Toronto from bulbs planted last October, in which one of the plants carries sixty-one flowers, and many others from twenty to forty each.

A compromise in the matter of the Kift assignment satisfactory to the creditors was consummated on the 22d inst., and the business will now be conducted as heretofore by Robert Kift, under the title of Joseph Kift & Son, at 1725 Chestnut St., Philadelphia.

BUSINESS CHANGES.

Brunner & Dettmer have opened a new flower store at 141 North Main street, Port Chester, N. Y.

An interest in the greenhouse property on North Main street, Cortland, N. Y., formerly the Hopkins property, has been purchased by Deputy County Clerk Stephen K. Jones. The firm will be known as Jones & Hike.

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Florists' Signs
For Windows
FAC-SIMILE OF SIGNATURE, ANY SIZE, METAL, ENAMEL OR GLASS
N. STAFFORD CO.
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Simple methods of correct accounting especially adapted for florists use.
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Telephone, Main 58

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FLORISTS' SUPPLIES
BEST LINE IN THE COUNTRY

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

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OLIVE STREET ST. LOUIS, MO.
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This wooden box nicely stained and varnished, 18x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Black Letters, 1 1/2 or 2 inch size per 100, \$2.
Print Letters - - - - - Lettered with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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FINE ROSES, FANCY CARNATIONS
 A Full Line of ALL CUT FLOWERS
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 SELLING AGENT FOR LARGEST GROWERS
 A full line of Choice Cut Flower stock for all purposes. Comprises every variety grown for New York market, at current prices
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 BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS
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WM. GHORMLEY
 Wholesale Commission Florist
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FINEST ROSES All Varieties

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders Telephones: 2200, 2201, Madison Square Write for Current Prices

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Aug. 19 1935	First Half of Week beginning Aug. 21 1935		Last Half of Week ending Aug. 19 1935	First Half of Week beginning Aug. 21 1935
ROSES					
Am., Beauty, fan and sp.....	10.00 to 20.00	10.00 to 20.00	CARNATIONS		
" extra.....	5.00 to 10.00	5.00 to 10.00	Fancy Class.....	1.50 to 2.00	1.50 to 2.00
" No. 1.....	2.00 to 4.00	2.00 to 4.00	General Class and Lower grades.....	1.00 to 1.50	1.00 to 1.50
" Lower grades.....	.50 to 1.00	.50 to 1.00	ORCHIDS		
Bride & 'Mad, fan and sp.....	4.00 to 6.00	4.00 to 6.00	Cattleya.....	..... to .....	..... to
" extra.....	3.00 to 4.00	3.00 to 4.00	BULBOUS		
" No. 1.....	1.00 to 2.00	1.00 to 2.00	Lilies.....	8.00 to 10.00	8.00 to 10.00
" Lower grades.....	.50 to 1.00	.50 to 1.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 2.00
Liberty, fan, and sp.....	10.00 to 15.00	10.00 to 15.00	MISCELLANEOUS		
" extra.....	4.00 to 6.00	4.00 to 6.00	Adiantum.....	.50 to 2.00	.50 to 2.00
" No. 1.....	1.00 to 2.00	1.00 to 2.00	Sweet Peas, bunches.....	..... to .50	..... to .50
" Lower grades.....	.50 to 1.00	.50 to 1.00	Adiantum Crownatum.....	..... to .....	..... to
Golden Gate, best.....	..... to .....	..... to	" Farleyense.....	..... to .....	..... to
Ivory.....	..... to .....	..... to	Smilax.....	..... to 8.00	..... to 8.00
Chateaux.....	..... to .....	..... to	Asparagus Plumosa, string.....	25.00 to 50.00	25.00 to 50.00
Meteor.....	.50 to 2.00	.50 to 2.00	Asparagus " bunches.....	15.00 to 25.00	15.00 to 25.00
Carnot and Kasevin.....	.75 to 6.00	.75 to 6.00	Asparagus, Sprenger.....	10.00 to 15.00	10.00 to 15.00

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Out of
Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

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Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on stenographies or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
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**John Breitmeyer's
Sons**

Cor. MIAMI and GRATIOT AVES.
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**Artistic Designs
 High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Discount on Regular Shipments

WM. DILGER
Manager

CUT FLOWERS

List of Advertisers

Page	Page
Aschmann G.....218	McCarthy N. F. & Co.....235
Baker Wm. J.....232	McClallan Charles W.....232
Backer & Co.....232	McMannus Jas.....234
Bambrick Thos. H.....231	McNeill J. F.....232
Barrows H. H. & Son.....218	Michigan Cut Flower Exchange.....235
Baur Floral Co.....232	Milling Charles.....235
Bayersdorfer H. & Co.....233	Milne Frank.....235
Berger H. H. & Co.....234	Mitting A.....231
Boas W. J. & Co.....233	Moninger J. C.....238
Boddington A. T.....230	Murdoch J. B.....235
Boston Co-operative Flower Market.....231	Niessen Leo Co.....232
Boston Florist Letter Co.....233	Peacock L. K.....231
Breck Joseph & Son.....232	Pennock Samuel.....232
Breimeyer J. J. Son.....234	Perkins John J.....235
Budding J. A.....235	Phila. Cut Flower Co.....232
Burnham Hutchings	Pierson F. R. Co.....231
Pierson Co.....230	Pittsburg Cut Flower Co.....235
Burpee W. A. & Co.....232	Poehlmann Bros. Co.....230
Chicago House Wrecking Co.....238	Pye R. C.....230
Chicago Carnation Co.....230	Rawson W. W. & Co.....232
Clucas & Boddington.....233	Kaynor John J.....234
Cooke G. H.....233	Reed & Keller.....232
Coolidge Bros.....231	Reinberg Peter.....232
Courtesy Gardens.....230-231	Robinson H. M. & Co.....235
D. N. N. Bros.....231	Roebers Julius.....232
Dilger.....235	Rolker August & Son.....231
Dorrance, Benj.....231	Sander & Son.....231
Dreer H. A.....231-238	Schillo Lumber Co.....239
Dysart R. J.....233	Seelay John A.....233
Elliott Wm. & Son.....230	Scott John.....231
Ester J. C.....239	Sharp, Partridge & Co.....239
Ernest W. H.....238	Sheridan W. F.....234
Farquhar R. & J. & Co.....232	Sievers J. H. & Co.....230
Fennell J. S.....234	Situations & Wants.....231
Fletcher F. W.....234	Skidmore S. S.....230
For Bros.....234	Stafford N. C.....233
Forest Nursery & Seed Co.....231	Stearns A. T. Lumber Co.....239
Fromow W. & Sons.....218	Sutherland Geo. A.....235
Ghoramley Wm.....234	Suzuki & Iida.....231
Grey T. J. & Co.....232	Sylvester H. H.....239
Gude A. & Bro.....233	Thomas W. H.....234
Gurney Heater Mfg. Co.....238	Thornburn J. M. & Co.....232
Gutman Alex. J.....235	Totty Chas. H.....218
Hail Asso.....239	Traendly & Schenck.....235
Hammond J. A.....235	Vaughan and Sperry.....234
Hanson G.....238	Vaughan's Seed Store.....231
Heller & Co.....231	Walsh M. H.....218
Holly Castle Co.....240	Ward Ralph M. Co.....234
Hill E. G. Co.....239	Watson G. C.....232
Hippard, E.....238	Weber F. C.....234
Hills Gies.....231	Weber H. & Son.....230
Holly Castle Co.....240	Weiland & Kiehl.....232
Horan E. C.....235	Wietor Bros.....232
Hug Eng. Co.....236	Winterer.....230
Hunt E. H.....238	Winterer E. F. & Co.....238
Joynt John.....235	Wood, E. A. & W. K.....230
Kasting W. F.....235	Yalaha Conservatories.....234
Kelsohn, R. J.....231	Young & Nugent.....233
King Con. Co.....239	Young Thos. Jr.....214
Klunker A.....238	Zirngiebel D.....235
Lager & Hurrell.....218	Zvolanek Ant. C.....232
Lang Julius.....235	
Leuthy A. & Co.....231	
Metropolitan Material Co.....238	

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Robert J. Dysart, 25 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BEGONIA GLOIRE DE LORRAINE.

Julius Roebers Co., Rutherford, N. J.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.

Joseph Breck & Sons, 47-51 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

Clucas & Boddington Co.,
121 W. 23d St., New York.
Lilies, Freesias, Paper Whites, Romans.
W. W. Rawson & Co., 12 & 13 E. H. Square, Boston.

Bermuda Grown Harrisii and Freesias.
For page see List of Advertisers.

De Nijls Bros., Hillegom-Holland.
For page see List of Advertisers.

H. H. Berger & Co., 47 Barclay St., New York.
The best Lilium Harrisii, Candidum, Callas, etc.

For page see List of Advertisers.

CALLA BULBS.

A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.
For page see List of Advertisers.

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill., France.
For page see List of Advertisers.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Hobart.

For page see List of Advertisers.

Robert C. Fry, Nyack, N. Y.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., New York.
Carnation Plants.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
My Maryland, Jessica.

For page see List of Advertisers.

CARNATIONS.

The E. G. Hill Co., Richmond, Ind.
My Maryland, Jessica.

For page see List of Advertisers.

Backer & Co., Billerica, Mass.
Field Grown.
For page see List of Advertisers.

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thornburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Deffance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.

For page see List of Advertisers.

H. H. Berger & Co., 47 Barclay St., New York.
Send for List.

For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 432-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breimeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hewes & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GERBERA JAMESONI.

Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

You Need Not Go Outside

THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
John C. Moultinger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schille Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.
H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.
H. M. Robinson & Co., 8-11 Province St.,
Boston.

For page see List of Advertisers.
Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.
Fancy Ferns.
For page see List of Advertisers.

HELP.

Thos. H. Rambrick, 34 S. 7th St.,
Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.
Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 and 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

HEATING APPARATUS.
Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.

For page see List of Advertisers.
Johnston Heating Co., St. James Bldg.,
New York.

HYDRANGEAS.

F. R. Pierson Co., Tarrytown-on-Hudson,
N. Y.
For summer blooming.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.

For page see List of Advertisers.
R. M. Ward & Co., New York.
Plants and Bulbs.

JAPAN BAMBOO CANES.
H. H. Berger & Co., 47 Barclay St.,
New York.

For page see List of Advertisers.
JAPANESE PLANTS.
Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.
Ralph M. Ward & Co., 12 W. Broadway,
New York.

Bermuda Hartsill Bulbs.
For page see List of Advertisers.

LILIES.

H. H. Berger & Co., 47 Barclay St.,
New York.
For page see List of Advertisers.

LILY BULBS.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.
Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.
Chness & Boddington Co., 131 W. 23rd St.,
New York.

Pure Culture Spawns.
For page see List of Advertisers.

NEW SPHAGNUM.

H. M. Robinson & Co., Boston.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and
New York.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya, Scroedae.

For page see List of Advertisers.
Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists

For page see List of Advertisers.
PAEONIES.
Gilbert H. Wild, Sarcoxie, Mo.

George Holts, S. Weymouth, Mass.
For page see List of Advertisers.
Cottage Gardens Co., Queens, L. I., N. Y.

For page see List of Advertisers.
PANSY SEED.
Denys Zingelbel, Needham, Mass.

Zingelbel Giant Pansies.
For page see List of Advertisers.

H. F. Mitchell & Co., Philadelphia.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.
A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitneger's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St.,
New York.

For page see List of Advertisers.
English-Grown Roses.
Poeblmann Bros. Co., Morton Grove, Ill.

For page see List of Advertisers.
Young Roses.
Baur Floral Co., Erie, Pa.

For page see List of Advertisers.
Sielrecht & Son, Rose Hill Nurseries,
New Rochelle, N. Y.

Kilhamer Rose.
SCOTT FERN.
John Scott, Keap St., Brooklyn, N. Y.

For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Albee Burpee & Co., Philadelphia.
For page see List of Advertisers.
J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

SEEDS.—Continued.

C. J. Parquhar & Co., 6 and 7 S. Market
St., Boston.

Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Wiegelt & Co., Erfurt, Ger.
Cyclamen Seeds.

For page see List of Advertisers.
Nursery & Seed Co., McMinnville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.

Sweet Pea Christmas.
St. C. Zvolanek, Bound Brook, N. J.

New Sweet Pea Christmas.
For page see List of Advertisers.

General Appel, Darmstadt, Germany.
High Grade Grass, Clover, and Tree Seed

For page see List of Advertisers.

SIGNS, BADGES, TIME-SAVING DEVICES.
N. Stafford Co., 67 Fulton St., New York.

For page see List of Advertisers.
STEAM TRAP.
E. Huppard, Youngstown, O.

For page see List of Advertisers.
VENTILATING APPARATUS.
Burnham Hitchings Pierson Co.,
1133 Broadway, New York.

For page see List of Advertisers.
John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

For page see List of Advertisers.
The Chicago Lifter.
J. C. Moultinger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.
Boston.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland & Co., 34 Hawley
St., Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.
For page see List of Advertisers.
Wm. F. Kastling, 383-87 Elliott St., Buf-
falo, N. Y.

Chicago.
For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellar, Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

L. A. Randall, 61, 21 Randolph St., Chicago.

Welland & Birch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Winterston Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.
Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.
For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Av.

New York.
For page see List of Advertisers.
Bonnet Bros., 55-57 West 25th St., New
York.

Jos. S. Feurich, 48 West 30th St., New
York.

Ford Bros., 48 West 28th St., New York.

Wm. Ghormley, 57 W. 28th St., New York.

Alex. J. Guttmann, 52 West 29th St., New York.

Jas. A. Hammond, 113 West 30th St., New York.

E. C. Horan, 55 West 28th St., New York.

James Long, 33 West 30th St., New York.

John McManus, 50 W. 30th St., New York.

Chas. Millaug, 50 West 28th St., New York.

Fred Millaug, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.

John L. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, W. 28th St., New York.

Tracy & Schenck, 44 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

Lee Nissen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phil. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg, Pa.

New Offers in This Issue.

CARNATION, VARIEGATED LAWSON.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
For page see List of Advertisers.

COLD STORAGE LILIES.

A. T. Boddington, New York.
For page see List of Advertisers.

DECORATIVE EVERGREENS.

The Kervan Co., 20 W. 27th St., N. Y.
For page see List of Advertisers.

FIELD GROWN CARNATIONS.

E. A. & W. K. Wood, Newton, Mass.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

NUSSERY STOCK.

Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

PAEONIES.

Cottage Gardens Co., Queens, N. Y.
For page see List of Advertisers.

PURE CULTURE SPAWN.

H. F. Mitchell Co., Philadelphia.
For page see List of Advertisers.

ROSES, KILLARNEY AND RICHMOND.

Benj. Durrance, Durranceston, Pa.
For page see List of Advertisers.

TRANSPLANTED CELERY PLANTS.

R. Kilbourn, Clinton, N. Y.
For page see List of Advertisers.

GREENHOUSES BUILDING OR PROJECTED.

Woburn, Mass.—John Cummings, vegetable forcing house. Charles Cummings, range of houses.

Whitman, Mass.—R. E. Moir, one house; George A. Cook, one house.

North Easton, Mass.—Mrs. Anna C. Ames, range of houses.

Lynbrook, N. Y.—Charles Weber, two carnation houses.

Baltimore, Md.—James Hamilton, one house, 24 x 100.

Highland Park, Mich. J. B. Disney, one house, 25 x 60.

Whitman, Mass.—George D. Cook, carnation house.

Newtonville, Mass.—Wm. J. Abbott, violet house.

New Britain, Conn.—J. A. Carlson, house 30x70.

Bracondale, Ont.—Miller & Son, rose house.

Lutherville, Md.—Black Brothers, three houses.

Newton, Mass.—W. J. Adams, addition.

Buffalo, N. Y.—Byrne Bros., rose house.

Milford, Mass.—C. H. Metcalf, one house.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

MPRESS WRITE FOR CATALOGUE

GREENHOUSE MATERIAL

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO

OF EVERY DESCRIPTION

In writing advertisers, mention Horticulture

The Standard Steam Trap

A recently patented trap that is just what a Florist or any other party in need of a trap wants; it is the simplest and the only ever-working trap in the market, warranted to work and also warranted for 10 years. If not satisfactory after trial, will accept its return.

Testimonials if desired.

Also the Standard Ventilating Machine and the Duplex Gutters, Hinges and other fittings.

Send for Catalogue

E. HIPKARD, Youngstown, Ohio

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 11 FIFTH AVE. 74 FRANKLIN ST. BOSTON

ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON.

Illustrators and Designers

Standard Flower . . POTTS

If your greenhouses are within 500 miles of the Capitol, write us, we can save you money.

W. H. ERNEST,
28th and M Streets, WASHINGTON, D. C.
In writing advertisers, mention Horticulture

Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, Gas Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

What the Trade says about the Peerless Glass Repair Clamp.

"We think your device is very practical and will often be of the greatest convenience."

W. & T. SMITH CO., Geneva, N. Y.

For a sample address A. ELOKNER, Wauwatosa, W.

10 YOUR ADVANTAGE

Write for Our Prices on New and Second-hand Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE, BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Wash. agent, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Att'y's fee not due until patent is secured. PERSONAL ATTENTION GIVEN.—15 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$1. a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

Holds Glass Firmly

See the Point **PEERLESS**

Glazing Points are the best. No rights or lefts. Box of 1,000 points 25 cts. postpaid.

HENRY A. BRYAN, 714 Chestnut St., Phila., Pa.



A PERFECT POT

Uniform in size, color, hardness

And every other requisite
and costing no more than
ordinary product

This is what we showed at WASHINGTON, which elicited
approving comment from visitors and a

... *CERTIFICATE OF MERIT* ...

from the judges.

SEND FOR PRICE LIST OF THE HEWS POTS. BEST IN THE WORLD.

A. H. HEWS & COMPANY
NORTH CAMBRIDGE, MASS.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar
Posts, Etc.

We are in a Special Position to Furnish **PECKY CYPRESS**

Everything in PINE and HENLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, Tel. North 1626 and 1627 CHICAGO

In writing advertisers, mention Horticulture

GLASS

FACTORIES ARE NOW CLOSED
for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing advertisers, mention Horticulture

H. H. SYLVESTER

**Mason and
Builder**

818 Tremont Building
Boston, Mass.

Greenhouse Mason Work
a Specialty

In writing advertisers, mention Horticulture

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.
In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

INSURE YOUR GLASS
In the FLORISTS' HALL ASSOCIATION OF AMERICA
DO IT NOW
it's too late when you are hit. For particulars address
John G. Esler, Saddle River, N. J.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

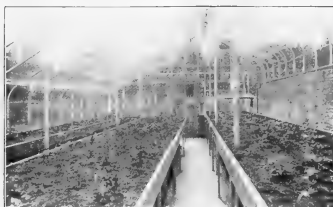
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Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture



Interior view of U-bar greenhouse designed and erected for Mrs. A. A. Anderson, Greenwich, Ct.

AFTER ERECTING A GREENHOUSE

it is rather late to consider the matter of heating and ventilating — It is as much importance to *stop right* as to *start right* — that is if you want results.

We have this boiler, piping and ventilating thing down to a pretty fine point and are not slow in telling you what we know about them — that is if you give us a chance. Start off with our catalog H. J; full of beautiful half-tones.

BURNHAM HITCHINGS PIERSON CO.

GREENHOUSE ARCHITECTS AND BUILDERS

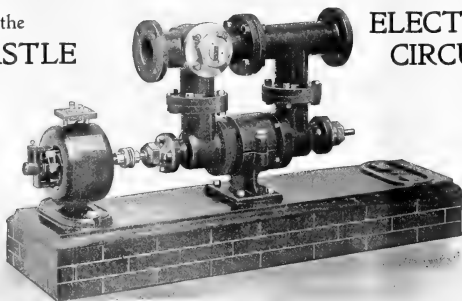
TREMONT BLDG., BOSTON

1133 BROADWAY, N. Y.

INDEPENDENT HOT WATER CIRCULATION

Secured by the
HOLLY-CASTLE

**ELECTRIC
CIRCULATOR**



This Device which was awarded a CERTIFICATE OF MERIT was the sensation of the exhibition at Washington. It was shown in operation and orders for its installation were given by a number of leading greenhouse men. It overcomes all troubles due to defective piping. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Will save its cost in fuel in one season. Built in sizes to circulate from 1 to 1000 gallons per minute. Boiler may be placed at any desired situation. Send for descriptive circular.

We are prepared to furnish estimates for, and erect any type of greenhouse.

HOLLY-CASTLE CO., Engineers, 49 Federal Street, BOSTON, MASS.

HORTICULTURE

Vol. II.

SEPTEMBER 2, 1905

No. 10



SWEET PEAS AT COHASSET, MASS.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*



Nephrolepis Barrowsii

Received First Award at the S. A. F.
Convention at Washington

Claimed by all to be the
best Fern yet introduced

Extra strong 2 1-2 inch stock...

\$25.00 per 100

Scottii 5.00 per 100

Boston Fern 3.00 per 100

HENRY H.
BARROWS & SON

WHITMAN, MASS.

FOR SALE CHEAP

Collection of

ORCHIDS

130 Plants

ONCIDIUMS DENDROBIUMS
CATTLEYS LAELIAS
AND CYPRIPEDIUMS.

Plants in fine condition, many showing
flower. List on application

PRICE \$75.00

G. HANSON

1025 S. Cameron St., HARRISBURG, PA.
Telephone Connection

CATTLEYA SCHROEDERAE

THE EASTER CATTLEYA

We take pleasure in announcing to our
customers the arrival of the above superb
Cattleya in perfect condition. Also Cat-
tleya Trianae, C. labiate, C. Warneri, C.
gigas, C. granulosa, Miltonia Moreliana,
Burlingtonia fragrans, Laelia anceps and L.
autumnalis atro-rubens. Write for prices.

LAGER & HURRELL

Orchid Growers and Importers SUDDUTH, N. J.
In writing advertisers, mention Horticulture

ORCHIDS, PALMS BAY TREES, ETC.

JULIUS ROEHRS CO.
RUTHERFORD, N. J.

In writing advertisers, mention Horticulture

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres
Also, Araucarias, Rubbers, Pandanus, Aralias
Dracaenas, Aspidistras, Marantas, Crotons
etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

A. LEUTHY & CO.

Importers and Exporters
Growers and Dealers

PERKINS STREET NURSERIES
Roslindale, Boston, Mass.
In writing advertisers, mention Horticulture

It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years
JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

Orchids

Largest Importers, Exporters, Growers
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HORTICULTURE

VOL II

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NO. 10

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CONTENTS OF THIS ISSUE

FRONTISPIECE—Sweet Peas at Cohasset, Mass.

THE CYCLAMEN—illustrated—O. C. Bailey..... 247

CORN-FLOWERS IN WINTER—Geo. H. Higgins..... 247

HOW TO RENEW AN OLD ORCHARD—N. B. White. 248

BORDEAUX MIXTURE—R. L. Adams..... 248

EARLY FLOWERING GLADIOLI..... 248

BRITISH HORTICULTURE—W. H. Adsett..... 249

EDITORIAL 250

NEWS OF THE CLUBS AND SOCIETIES

Canadian Horticulturists at Mt. Royal Park—Illus. 252

Societies to Co-operate 252

Massachusetts Horticultural Society 252

Kentucky Society of Florists 252

Society of American Florists 252

Newport Horticultural Society 252

North Shore Horticultural Society 253

New Haven County Horticultural Society 253

SET A GOOD EXAMPLE—R. T. McGorum..... 254

SEED TRADE 255

CUT FLOWER MARKET REPORTS

Boston, Cincinnati, Louisville, New York, Philadelphia, San Francisco 257

MISCELLANEOUS

After Adjournment 251

Personal 251

What They Say of Us 251

Visitors in Boston 251

Old Colony Gleanings 251

Obituary 251

Wholesome Chestnuts 251

Out of the Bean Pod 251

San Francisco Notes 253

Philadelphia Facts and Fancies 253

A Fertilizer Question 254

Doings in Newport 254

News Notes 254

Washington Notes 254

Greenhouses Building or Projected 257

Catalogues Received 257

Business Changes 257

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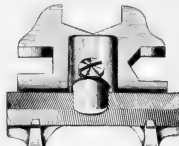
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6 and 7 SOUTH MARKET ST.
BOSTON

The Cyclamen



The accompanying photograph of cyclamen was taken from plants as grown in the estate of Mr. F. S. Moseley, Newburyport, Mass., Jan. 31st, 1905.

The method of culture was, I think, about the same as is generally recommended for cyclamen. We generally sow our seeds the first of September in well-drained pans, using two-thirds loam, one-third leaf mould, with a little sand, filling the pans to within one-inch of the top. Then place a piece of glass over pan until seeds have germinated, when it is removed. Keep the pans in a saucer of water adding more water when required. The pans are kept in a temperature of about 58 or 60 degrees at night in a northerly exposed house.

As soon as plants have made one leaf, prick off into pans and from pans into 2 1-2-inch pots as soon as they become large enough, using two parts loam, one part leaf mould and one part well-rotted manure and sand mixed. Then put into a cooler house facing north with a temperature of about 50 degrees at night. The plants are then potted on as becomes necessary, which will be noted by knocking the plants carefully out of the pots. If the roots are showing through the soil, pot on into four-inch pots, and from four into six-inch pots, and from six to seven and eight-inch pots, making their final potting about the last week of July or first week in August, using at this time a coarser soil and more manure.

The plants are later put out in cold frames as soon as the bedding stock is cleared out and grown there all summer, raising the sashes back and front about five or six inches according to the weather.

These plants had a permanent shade of white lead and naphtha, although a portable shade is, I think, better. Cheese cloth makes a good shade, drawn over as soon as the sun strikes the frame in the morning and rolled off again about 4.30 or 5 o'clock in the afternoon, according to the position of the frame. The plants are sprayed three or four times a day during bright weather, using a syringe giving a fine spray. The plants are put inside where they are to flower about the last week in September, giving temperature of 50 to 55 degrees at night, then commence to feed weak liquid manure.

There are, by the way, few plants more lasting and satisfactory during the winter months than a good bench of cyclamen.

Corn-flower in Winter

During the winter months there is a demand for corn-flower (*Centaurea cyanus*, Emperor William) sufficient to induce certain growers to attempt to force it. Some have attained a measure of success in doing this, but, as a general thing, the attempt to grow it under glass has been extremely unsatisfactory, for while seed sown in the ground in the spring or late summer, or seeds dropped from the plant itself, will, with little care, throw an abundance of bloom in the open border, during the early summer months, the task of forcing this plant to yield its bloom out of season is one to which it gives reluctant consent.

The impatient and uncertain manner, however, in which attempts have been made by a majority of growers to induce this plant to flower in winter, may be, in a great measure, responsible for the unsatisfactory results obtained. It is probable that a more intelligent effort to help the plant adapt itself to new conditions would open up more encouraging possibilities. In this connection it is well to remember that seed of the corn-flower sown in the open, is, under natural conditions, seed sown to produce bloom in the open. While it does not necessarily follow that, in order to produce bloom under glass, the seed must be sown there, yet it is well to introduce this plant to its new surroundings as soon as possible, also to the conditions most favorable to its proper development. These are more nearly under control in a greenhouse than elsewhere.

A sufficient growth of matured, flowering wood, at the earliest moment, is the end sought for. Plants grown in the shade make a rank growth of soft foliage, especially if the soil is damp and rich. On the other hand, if the location is too hot and dry, the plant becomes stunted, and while still very small, throws a flower which is inferior. Both extremes may be avoided by selecting a partially shaded portion of the greenhouse where there is good air circulation.

Seed should be sown early in the summer in order to have all possible flowering power developed before the short dark days of late fall and early winter, as the plant has a persistent tendency to run to foliage during this time. When the plant has made its natural leaf in the seed-bed, prick out into flats or the bench, placing the seedlings so far apart that they will not be likely to draw. When six or eight inches high they should be put into 3 1-2-inch pots. It is not a good plan to plant corn-flower in the open bench, as it is nearly impossible to direct or control its inherent tendency to run to foliage, if this is done. Planted in pots, conditions affecting its growth are more readily regulated. As growth of the plants increases, they should be repotted and not allowed to become root or pot-bound in anything smaller than an eight-inch pot.

Corn-flower plants, produced from seed procured of the seedsmen in the ordinary way, show a variety of habits and tendencies, some lending themselves more readily than others to forcing conditions. If a plant is reluctant to throw up an erect stalk and shows a tendency to spread out over the ground and to grow thick and heavy, it should be thrown out. The chances are entirely against its producing blooms enough to pay its way. The plants to be selected are those which early show an erect branching habit, with thin foliage and narrow leaves. Enough should be started to have a sufficient number of only the best of this type. Some well-rotted cow manure should be placed in the bottom of the eight or ten-inch pot in which the plant is to remain. It is not a good plan to sift out all the gravel from the soil used in potting, neither is a rich, heavy

O. C. Bailey

loam desirable. The plant is not to be starved, however, and there should be some substance to the soil used. During the dark months, it will make some soft growth that wilts quickly when the sun comes out, and the foliage should be sprayed at these times, but the plant should never be soaked. It is absolutely essential for best results to keep it staked and tied up at all stages of its growth. It usually attains a large size and requires light and air, therefore, will not bear crowding. Very satisfactory results have been obtained by placing the pots in different parts of the house among lower-growing stuff.

A grower might, at some time, select a plant possessing in the highest degree, the essentials of a forcing corn-flower. Using it as a parent, he might apply the doctrine of selection and thus bring out a race of seeds and plants that have adapted themselves, in a measure, to the conditions of producing bloom out of season.

Its color is nearly, if not wholly, unique among winter flowers, and for this and other reasons the corn-flower has a possible future before it as a standard florists' flower.

Geo. H. Higgins

How to Renew an Old Orchard

To stand on the rounds of a ladder, or the branches of the tree to do all the grafting that an old tree needs to have done is a very uncomfortable job, to say nothing of the perplexity of trying to do the work so that a union of the scion and stock may be reasonably certain. The grain of the branches of old trees is usually winding and will not split straight and makes the adjustment of scion the more difficult. Besides being uncomfortable and difficult, it is very expensive to renew an old orchard by grafting, and it requires two seasons to accomplish the work, as it will not do to remove the whole top at once. I have found it a better way to cut the tree off close to the ground in the winter and bud the sprouts the next summer (in August); those buds will grow up and bear fruit as soon as the second set of grafts, where renewal by grafting is practised. Such trees are practically young trees and will grow better, while grafts are usually short lived and unsightly, as the scion will, for a few years, grow much faster than the stock or branch and bulge out twice as large, the old branch having ceased to grow much, if any. Another advantage of this method is that it admits the establishment of a low head, which is obtained by cutting back the first year's growth of the bud, leaving but four or five buds. The advantages of a low head are too well known now for me to mention them. I have bearing trees on my place so low that I can step from the ground into the top. It is best to let all the sprouts grow the first year for the benefit of the roots. It is also best to bud two or three sprouts to make sure of one union.

This method has many advantages over top grafting and is much cheaper. The writer claims to have been the first to grow low head apple trees in nursery rows. He had one tree that spread over fifty feet, with lower branches over one foot in diameter, where joining the trunk, about one foot from the ground.

H. B. White

Bordeaux Mixture

A spray to be good must be cheap, easy of preparation, convenient to spray, adhesive, and with a light precipitate. Bordeaux mixture thus far fulfills these conditions the best of anything known, and is therefore the mainstay in combating fungus diseases. While easy to prepare there are still a few simple rules that must be observed or a poor unsatisfactory mixture will result.

The formula for ordinary use is 4-4-50, although this is modified for special uses. The numbers refer to the amounts of material used, that is, four pounds of lime, four pounds of copper sulphate and fifty gallons of water.

The lime must be fresh and well-burned to give the best results. The best is found in the centre of the lumps taken from the middle of the barrel.

The copper sulphate is put in a cloth bag and suspended in a tub containing twenty-five gallons of water until dissolved.

The lime is slaked carefully with water, care being taken not to drown or burn it. When of the consistency of cream water is added to make up twenty-five gallons and the whole is strained through burlap.

When cold the lime and copper sulphate solutions are poured slowly and at the same time into a clean barrel, and thoroughly stirred. The result should be a clean, bright blue solution with no sediment in the bottom.

The lime is added to neutralize the copper sulphate so that it will not burn the foliage, hence an excess of lime will do no harm. If a clean knife blade shows a copper deposit on being held in the mixture it is a sign of free copper and more lime should be added.

If four ounces of Paris green is added to every barrel (50 gallons) of Bordeaux the spray will have an insecticidal as well as a fungicidal value.

R. J. Adams

Early-Flowering Gladiolus

The gladiolus as a decorative plant is well known, also as a cut flower for the florist. At this season of the year when new bulbs are making their appearance it is well to lay in a few hundred bulbs of the early-flowering gladiolus of the Colvillei type. They are not such stately plants as the *gandavensis* or *Brenchleyensis* types, but they surpass these in graceful effect and distinct character. They embrace the most delicate and beautiful combinations of color, all of dwarf branching habit and free flowering and especially adapted as a pot plant for the green house and conservatory, and as a cut flower, novel and desirable. The spikes should be cut when the first flowers expand and they will continue to open, and last a long time. The bulbs may be planted as soon as they can be obtained and planted in bulb pans or 6-inch pots using moderately rich soil. Place the pans in a partially shaded position, keep moist but not wet. When growth is apparent, the plants should receive full light and a temperature of 65 degrees should be maintained; under such conditions they will flower at Easter when they will prove very acceptable. There are several varieties. The following are distinct and extra good for forcing: *G. Colvillei albus* (The Bride), *G. delicatissimus*, *G. Rose Queen*, *G. Peach Blossom*, *G. Rosy Gem*, *G. Pink Perfection*.

British Horticulture

A HOME OF ROSES

Colchester, the historic Essex town, has long been held in affectionate regard by rosarians, for from this centre come some of the chief prize winners at the British summer shows. There are three firms at Colchester whose names usually figure prominently in the prize lists, namely, Messrs. B. R. Cant & Sons, F. Cant & Co., and Prior & Sons. Their nurseries are usually a picture in the summer months, and they occupy a picturesque position on the slope of a hill, with a southern aspect. Messrs. F. Cant & Co., who are the owners of Braiswick Rose Gardens, have a wide variety of all sections of the "Queen of Flowers." Their new tea rose, Lady Roberts, which is of a rich, reddish apricot, is meeting with considerable popularity. Messrs. B. R. Cant & Sons of the Old Rose Gardens, Colchester, have the distinction of winning the champion challenge trophy of the National Rose Society given to nurserymen on ten occasions, including this year. Their newest introductions include Blush Rambler, an attractive climbing polyantha; Ben Cant, a crimson H. P., and Mrs. B. R. Cant, a useful Tea. Their new seedling pillar rose, Maharajah, which has obtained an award of merit from the Royal Horticultural Society, is a useful addition to this section. These firms are likely to be well represented at the autumn show now being arranged to take place at the Royal Horticultural Hall in London next month. The autumn show was a new departure introduced by the Society last year, and its success justified the retention of the fixture.

A SWEET PEA ENTHUSIAST

Mr. W. P. Wright, the secretary of the National Potato Society and a well known horticultural expert, was among the prize winners at the National Sweet Pea Society's show. It will interest HORTICULTURE's readers to know that Mr. W. Atlee Burpee of Philadelphia, one of the Society's vice-presidents, assisted in the judging, and was able to exchange ideas at the luncheon with many of the leading nurserymen on this side.

A short time ago I went down to Mr. Wright's delightful residence in rural Kent, the county rightly named the "Garden of England." Here are to be seen a splendid collection of the leading varieties of sweet peas grown to the best advantage. Besides the masses of brilliant tints seen in the clumps, the flowers were also effectively trained on trellis-work, a form of decoration very useful for suburban gardens. Amongst the varieties noted were the new trio introduced by Mr. Henry Eckford, of Wem, Shropshire, viz., *Romolo Piazani*, *Black Michael* and *David R. Williamson*. From the same raiser were seen that excellent Scarlet Gem which is noted for its free flowering, *Lady Abedore*, a new pink, and *Dora Breadmore*, a pale buff, brought out by Mr. C. W. Breadmore of Winchester, were making a good show. The others included *Lord Rosebery*, carmine; *Gladys Unwin*, pink shade; *Bolton's Pink*, *Florence Moquennx*, stripes and flakes; *Miss Philbrick*, blue; *Orange Countess*, and many others. Mrs. Walter Wright, a fine mauve, which was brought out in

1903 by Mr. Eckford, is named after Mr. Wright's wife, who shares her husband's enthusiasm for this charming summer flower.

A SECRETARY'S SERVICES

Mr. Richard Dean, the secretary of the National Chrysanthemum Society, has lately been presented with a cheque from the members, in recognition of his long and valuable services. As far back as 1858 Mr. Dean was associated in the promotion of a flower show, and since that time he has actively assisted in the chief horticultural exhibitions which have been held. In 1858 he was a valuable helper to the late Dean Hole in the organization of the first show held by the National Rose Society at the St. James's Hall, in London. In the same year Mr. Dean was officially engaged at an important show of dahlias held in the same place. When the International Horticultural Exhibition was held at South Kensington in 1866, Mr. Dean was appointed assistant secretary. This was the finest display of the kind ever witnessed in England. The show covered three acres, and the services of 110 judges were required. It was successful in every respect, a surplus of £3,000 being yielded. Later on Mr. Dean officiated as judge at a series of provincial shows organized by the Royal Horticultural Society. When the potato shows were organized at the Crystal Palace, Mr. Dean was a successful exhibitor. This gave a great impetus to the raising of new varieties both in England and America. At these shows the American introduction, *Snow Flake*, realized 12s. a pound. This was considered a high price in those days, but this value has been eclipsed by the unique prices in the recent "boom," now a matter of ancient history.

SUCCESSFUL SHOW ORGANIZING

In 1892 and 1893 Mr. Dean had charge of the International Exhibitions at Earl's Court, under Mrs. Milner, the noted landscape gardener. Since 1890 he has held the secretaryship of the National Chrysanthemum Society. In 1900 when the bi-centenary of the introduction of the sweet pea into Europe was celebrated, Mr. Dean was secretary of the show held at the Crystal Palace, and the National Sweet Pea Society was the permanent outcome of the exhibition. Mr. Dean has led a strenuous life. For over 50 years he has been a contributor to the horticultural press, and he has officiated as a judge in all parts of the kingdom, besides lecturing for county councils and horticultural societies. Mr. Dean's early experience was gained with Mr. Turner at the Royal Nurseries, Slough, and at one time he was in charge of the seed business of Messrs. F. and A. Dickson & Sons of Chester. As regards his many activities Mr. Dean sometime ago stated, "If you ask me to sum up my career I should say I have had a busy life in flower show work." Asked as to whether he had any predilection for any particular flower, Mr. Dean answered: "I love all flowers, but if I have one predilection it is for auriculas. I have grown a few of them myself." This is a modest way of putting it. Mr. Dean has raised several new varieties of auriculas which have been certificated by the Royal Horticultural Society.

W. H. Adsett.

London, England, August 2, 1905.

— *Since the issue of AUGUST, put in type we have news of the death of Mr. Dean. See HORTICULTURE, page 251.

HORTICULTURE

AN ILLUSTRATED JOURNAL
DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Our purpose

The date of this issue reminds us that the summer has gone and that we already stand on the threshold of another busy season.

At the longest, frost is not many weeks away and indoor topics will soon be uppermost. HORTICULTURE is prepared to receive its due share of the reviving business and, in return, to perform its part towards gathering up for those who bestow on their patronage a full equivalent for all the support accorded. We propose to see to it that HORTICULTURE's advertisements get to the people who are interested in the goods and are willing and able to buy.

Nicotiana Sanderae

Nicotiana Sanderae, as a garden ornament, received rather severe handling at Washington. While some of the fault found with this novelty may be justified,

yet we cannot subscribe to the wholesale denunciation some of our friends were disposed to subject it to. In the vicinity of Boston this novelty started off rather unsatisfactorily with the hot weather of early July, the individual flowers being small and short-lived, but since the advent of cooler days it has improved wonderfully and makes an effect in the mixed border unrivalled by any other flower of its color. The great variation in the shades of color produced at present is a disadvantage, some plants giving flowers of striking brilliancy while others are dull and washy. A great variance in habit and in time of blooming is also noted. No doubt improvement on all these points will yet be attained through selection.

Fighting the brown-tail

The brown-tail caterpillars of the young brood are industriously feeding on the tips of the tree branches and already the forests where they swarm begin to look as though a scorching flame had swept across the sky line. There is evidence at hand to show that on trees where thorough spraying was done at the beginning of the season to destroy the old brood many of the young caterpillars are getting their death dose also. The young growths which have been made since the spraying furnish good food for a short time but as soon as the caterpillars work down to the

sprayed foliage their doom is sealed. This double service is a most encouraging point in favor of a general and thorough spring-spraying with a strong adhesive mixture that will hold on all through the season and is a much more simple and inexpensive process than the laborious work of nest-collecting which has hitherto been the main reliance in moth suppression.

About S. A. F. trade exhibits

The division of the exhibition into three sections at the recent Washington convention was a most unfortunate but unavoidable necessity. The exhibition feature of the annual meetings of the Society of American Florists has grown amazingly within recent years. Those who conclude from the lack of increase in membership or convention attendance that the S. A. F. is at a standstill ever since the first Washington meeting thirteen years ago, should not lose sight of the fact that on that occasion one hall of the National Rifles Armory accommodated the entire exhibition whereas this year both halls in the Armory and the Masonic Temple were filled. It is to be hoped that more adequate arrangements can be made at Dayton for the proper accommodation of this most attractive of the convention features and the convenience and welfare of the enterprising firms who thus contribute so much towards the success of these meetings in a general way. The extent and elaborateness of the displays as made now-a-days suggest the thought that it may soon be deemed wise to extend the duration of the conventions to a full week, devoting one day exclusively to the business of the exhibition.

Opening the fall campaign

The spirit of energy and enterprise which takes possession of the normal man as he emerges from the heat and indolence of summer into the invigorating atmosphere of autumn and comes to a realization that the busy season is at hand, if diligently cultivated, will do much at the start to establish a momentum in business that will be felt all through the season. Whether business is to be good or bad is dependent to some extent on influences beyond our control but it lies mainly in our own hands and now is the time to set our pace. He who starts off with the determination to accomplish something, self-reliant as to the outcome and willing to make needed sacrifices to that end, stands an excellent chance of realizing his ambition. Ways and means are not lacking for the florist animated by such a purpose. As a pre-requisite his office and salesroom should, in their furnishings and adaptability, bear evidences of refined taste and the implied compliment to customers that such are the surroundings they are accustomed to. The wide-awake "supply" dealers using HORTICULTURE's columns to proclaim the treasures they have to offer for the opening season are ready to do their part and the wholesale flower dealer and plantsman will not be found lacking in the right kind of material when it is called for. With all preliminaries attended to the next move is the "opening"—an incident which no wide-awake florist can now afford to omit from his prospectus. A well-advertised fall opening exhibition, with invitation cards widely distributed, can be depended upon to yield a good direct return and its stimulus will extend throughout the entire season. And remember, everybody, that every item essential to the successful carrying out of such a program can be furnished by the firms whose announcements are found regularly in the advertising columns of HORTICULTURE.

AFTER ADJOURNMENT.

Simultaneously with the confirmation of previous information to the effect that the French crop of freesias is a failure and that of the Channel Islands nearly so, comes the announcement from a pioneer California firm which appears in our advertising columns of this issue. The California freesias are always good.

The mention in an advertisement in our last issue of the award of a certificate of merit for an exhibit of standard flower pots at Washington was due to an error in editing and proof-reading in this office. The exhibit in question was not entered for any award by the judges, not being eligible therefor, goods of the same make having already received a certificate of merit at Atlantic City in 1894.

There is, perhaps, nothing so exhilarating in the experiences of the amateur gardener as when he steps upon a hoe and the responsive handle immediately rises to implant a fervent kiss between his eyes.—Boston Transcript.

The hoe has been known to do this to some who were not "amateur" gardeners. Consider, too, the upturned garden rake, which not only smites you, but impales your foot on its prongs. One or two such experiences are sufficient to break up the habit of laying such tools upon their backs.

PERSONAL.

George Swoboda of Hess & Swoboda, Omaha, Neb., has arrived in New York with his family after a European trip of several months.

Francis Canning, instructor in floriculture at the Massachusetts Agricultural College, Amherst, returned the first of the week from England.

George O. Greene, assistant horticulturist at the Massachusetts Agricultural College, has resigned, and will go to Kansas, where he is interested in a syndicate of country-stores.

Norris F. Comley and family of Lexington, Mass., returned last week from a visit to England, where they visited Mr. Comley's grandmother, mother of the late James Comley, who is 102 years of age.

T. F. Hunt and N. D. Ingham, graduates of the Massachusetts Agricultural College in the class of 1905, leave this week for California, where they will be engaged in the state botanical and horticultural work.

O. B. Whipple, a graduate student of the horticultural department at the Massachusetts Agricultural College, has just been appointed assistant horticulturist in the Colorado Agricultural College at a salary of \$1000 a year.

VISITORS IN BOSTON.

E. Haentze, Fond du Lac, Wis.; Martin Reukauf, representing H. Bayersdorfer & Co., Philadelphia; Mr. Rochrs, Rutherford, N. J.; C. B. Weathered, New York.

WHAT THEY SAY OF US.

Gentlemen:—Cannot use space after August, as I have nothing to sell. The ad. works. Yours truly,

A. Mitting.

OLD COLONY GLEANINGS.

Perry Green, of the Monatiquot Greenhouses, Quincy, has his motor launch, "Hi-yi" (big fish), in full commission, and moonlight sails and day excursions take place when business conditions relax sufficiently to allow of it. This plant borders on the Monatiquot river, and it is only a step from the grounds surrounding the greenhouses to the boat landing. Many members of the trade, both growers and dealers, have enjoyed the hospitality of the genial Perry on the stanch and commodious "Hi-yi."

Mr. Green has three houses of violets which are looking extremely well. The runners were selected early and rooted in sand. From the sand they were placed in pits, where they were grown until planted in the permanent bench. The houses are 16x100 feet, with sash roofs and one centre bench. Three cords of horse manure and one hundred and fifty pounds of bone meal were worked into the soil of each bench. Part of the sashes have been taken off the roof, giving a good air circulation. The plants have been freely and carefully watered, and at the present time are certainly in a very thrifty and promising condition. Ralston asters are doing finely at this place.

W. C. Ward, of Wollaston, has the frame of his new pansy house erected, the piping partially finished, and the benches built. The house will be planted and the young plants allowed to establish themselves before the glass is laid. This addition will make nearly twenty thousand feet of glass at this place, all of which will be used to force pansies the coming season.

One half pound of seed has been sown, and a bench 9x90 feet in one of the houses is filled with seedling plants that are nearly large enough to be planted. A frame outside contains an auxiliary supply. An article which described Mr. Ward's plant and his method of culture appeared in an early issue of Horticulture, which brought a demand from a number of places for a sample lot of pansies. He was unable last year to supply an order outside of his regular customers, but with an increase of producing facilities this season he expects to pay some attention to a shipping trade.

OBITUARY.

Mr. Richard Dean, V. M. H., who for over half a century has been a familiar figure in the horticultural world, passed away at his residence at Ealing, Eng., on Aug. 21. Mr. Dean's services to horticulture were comprehensive and valuable. Since the year 1858, when he was associated with the late Dean Hole in arranging a rose show at St. James' Hall, he has been closely identified with floral exhibitions in the capacity of manager or judge. Since 1890 he has been secretary of the National Chrysanthemum Society. Mr. Dean was an effective lecturer and a frequent contributor to the Horticultural Press. He was one of the first recipients of the Victoria Medal granted in the Jubilee year.

WHOLESOME CHESTNUTS.

Let not one or even two failures with violets prevent you from growing some for next winter.

Get everything ready for bulbs, but first of all get good bulbs; they are the cheapest in the end.

If clumps of perennials need dividing or moving do the work before winter or even late in the fall.

Keep cosmos tied up to some sort of support; the difference in the appearance of flower and foliage when cut will repay for the trouble.

After the grapes have all been cut vines should have at least one thorough syringing even to the extent of drenching the roots; they will soon dry out enough. Give them also plenty of air and keep laterals cut out.

Take a good look at all your trees and perhaps you may notice an overcrowding. If so, move to some other place or cut down all that can be dispensed with in the present location—one good tree is better than many poor ones.

Gardenias may have been stubborn and stiff-necked, refusing to bloom when you wanted them to; they may be likened to spoiled children—petted and mistakenly nourished, but let them alone, they may come to their senses and bloom later on when their appearance will doubtless be welcome.

Now that the florists seem to be falling over each other in their newly awakened affection for the poor private gardener, this individual is in a reciprocative mood, and as he is in Newport in a large quantity his feelings are worthy of consideration. Let there be more of it from both sides; one cannot get along without the other; and neither should have any desire to.

If a good new thing comes into your possession, hold on to it until you have enough to create a sensation. Don't give even your dearest friend any of it. He may not think as much of it as you do, and give some to a friend of his and then, no matter what its merit, you will have let slip your opportunity and will receive little or nothing for your introduction or labor.

The members of the Newport Horticultural Society are actively engaged in preparation for the construction of a float to be part of the carnival on the last evening of the celebration of "Old Home Week" next month.

Newport is as yet free from the gypsy and brown-tail moths, but there seems to be a feeling gaining prevalence that precautionary measures should immediately be taken in order to be ready for emergencies.

OUT OF THE BEAN POD.

The first sign one sees on entering the Music Hall flower market building is this eminent Bontonese one, "Dr. A. Gladius, Metaphysician, Expert Mathematician." The auction sale of choice of stars in the market, which came off on Wednesday of this week, indicated in its results that the managers might have been taking lessons from their learned neighbor, for they scored such a success over last year's sale that the mathematics of prosperity for the coming year seem assured. We are very glad it is so, for they advertised the auction in Horticulture.

NEWS OF THE CLUBS AND SOCIETIES



CANADIAN HORTICULTURISTS AT MT. ROYAL PARK, AUGUST 11, 1905.

SOCIETIES TO CO-OPERATE.

Report of Joint Committee representing Florist, Nursery and Seed Interests at Washington, D. C., Aug. 17, 1905.

It having seemed desirable that the three leading associations representing the seed, nursery and florists' interests of the country cooperate in various ways together, a joint committee met on August 16 at the New Willard Hotel. The following named persons were present: Harlan P. Kelsey, of Boston, Mass., and T. B. Meehan, of Germantown, Penn., appointed by the American Association of Nurserymen; F. W. Belgiano, of Washington, D. C., and Chas. M. Page, of Des Moines, Iowa, appointed by the American Seed Trade Association; F. R. Pierson, of Tarrytown, N. Y., and J. A. Valentine, of Denver, Colo., appointed by the Society of American Florists and Ornamental Horticulturists. C. L. Watrous, of Des Moines, Iowa, from the Nurserymen's Association; Geo. S. Green, of Chicago, from the Seed Trade Association, and Benj. Hammond, of Fishkill on Hudson, N. Y., from the Florists, duly accredited members of the committee, were not present. The committee was organized by electing F. R. Pierson chairman and Charles N. Page secretary.

After considerable discussion it was decided to co-operate on the following subjects and such other matters of mutual interest as may be brought for action or consideration from time to time:

1—Unit in striving to secure legislation which shall be favorable to one or more of the allied associations of Seedsmen, Nurserymen and Florists.

2—Work for the defeat of legislation which would prove unfavorable to either association.

3—Try and secure favorable rulings in the custom house regarding imports of seeds, plants, bulbs, trees and horticultural merchandise and supplies.

4—Should Congress revise present tariff classification and import duties, to strive to ascertain what changes, if any, are desired by the trade at large and work for their adoption.

5—Secure as favorable classification and rates as are possible on all classes of freight and express matter.

6—To strive to do away with the Government Seed Distribution by Congressmen.

7—To secure the postal rate of \$8 per 100 lbs. on catalogues, pamphlets and other printed matter weighing 2 ozs. each, or more, without affixing stamps.

8—To secure a convenient parcels post system, both domestic and foreign.

9—We deprecate the giving of commissions to gardeners or others who have charge of making purchases for public institutions or large private buyers, and believe that some plan should be devised to do away with this practice.

A letter was read from W. H. Grinnell, President of the American Seed Trade Association, and also letters from Geo. S. Green and C. L. Watrous.

Messrs. Kelsey, Hammond, and Page were appointed to consider the subject of graft or commissions paid to the agents of buyers.

A committee, consisting of Messrs. Page, Pierson and Watrous was appointed on postal legislation.

The following resolution was presented:

Resolved, That it is the sense of this meeting that each association should, as far as possible, appoint each year the chairmen of the three committees which are most concerned in subjects of mutual interest as members of this joint committee.

At an adjourned meeting on August 17, a Transportation Committee was appointed, consisting of Messrs. Green, Pierson and Meehan.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The weekly exhibition on Saturday, August 26, was replete with asters in great variety of type and color. Mrs. L. M. Towle won first prize for fifty vases of assorted, and H. B. Watts was second. There were also large general collections of these showy flowers from Harvard Botanic Garden, Mrs. John L. Gardner and Oscar B. Kenrick. From the Botanic Garden there also came a big display of hardy border flowers and tuberous begonias. Blue Hill Nurseries were represented by a fine show of hardy perennials. Dahlias made a good showing, W. G. Winsor and A. F. Johnson contributing one hundred named blooms. The Boston Park Department staged an interesting collection of ornamental fruiting shrubs. The Boston Mycological Society was out in force with a wonderful gathering of odd and fantastic forms of fungous growth, which made a centre of absorbing interest for the cult.

KENTUCKY SOCIETY OF FLORISTS.

The next meeting of this society will be held at Riverview Park on Tuesday afternoon, Sept. 5, at 2.30 o'clock. After the transaction of business supper will be served.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

A limited space is available for advertisements in the report of proceedings for 1905. Page \$25.00. Half page \$15.00.

WM. J. STEWART, Secretary,
11 Hamilton Place, Boston.

NEWPORT HORTICULTURAL SOCIETY.

A well attended meeting of this society was held last Wednesday evening, the attraction (as such it proved) being the address by George T. Powell, president of the Agricultural Exports Association, on "Insect Pests—How to Exterminate and Prevent Them." Mr. Powell is a fluent speaker and possesses a thorough knowledge of his subject. A detailed history of the introduction and ravages of the gypsy moth, the brown tail moth and the San Jose scale was given, and remedies for their destruction were recommended. He urged that all that is needed for the protection of trees and plants is an understanding first of the trees and next an intimate knowledge of the habits of their enemies, and if this understanding and knowledge becomes general, as it should, fruit-growing will become profitable and fewer plants and trees will be seen denuded of their foliage. The latter condition is inexcusable for the reason that on country estates especially no expense is spared for operations of far less importance. Mr. Powell's address was well received and arrangements were made with him for another lecture on a different subject in September.

NORTH SHORE HORTICULTURAL SOCIETY.

The fifth summer exhibition of this progressive Society was held on August 23 and 24, in a large tent spread on the lawn of the Essex Club at Manchester, Mass. It far excelled any previous effort of the Society in number of exhibits and in attendance. The tent proved to be an ideal place for such an exhibition, the flowers actually looking better at the close than at the beginning of the show.

The exhibitors were, of course, largely from the many private estates located all over this section, the gardeners all taking a deep competitive interest in the affair and contributing rich displays of out-door garden material. Hardy herbaceous plants predominated. There were asters, dahlias, sweet peas and gladioli in profusion and the vegetables were excellent throughout. Fred Brasch, gardener to Mrs. J. McMillan, won ten first and one second prizes; M. F. Connolly, for Mrs. W. B. Thomas, won four first and one second; J. C. Vorneveld, for Mrs. H. Z. Hinson, won the silver medal for general display against six other contestants, and William Swan, for Mrs. R. C. Hooper, received the bronze medal in this class. On annuals C. Murray, for the Misses Loring, and Herbert Shaw, for Mrs. G. M. Lane, won first and second. Other gardens represented in the prominent exhibits were Thomas Jack, for Mrs. W. B. Walker; D. H. Mitchell, for Mrs. F. R. Tibbets; T. J. Griffin, for Mrs. C. H. Tweed; John Rielly, for Mrs. M. B. Mason (winning six firsts and four seconds); Walter Allen, for Mrs. W. S. Fitz; J. Salter, for Mrs. P. Dexter; Wm. Hooper, for Mrs. G. Curtis and Henry Menken, for Mrs. F. M. Whitehouse. Among the commercial exhibitors were R. & J. Farquhar, with their new lily, Bay State Nursery, J. Heurlein, T. C. Thurlow and F. E. Conine, all of whom received

certificates of merit. The judges were W. E. Doyle, Isaac Porter and George Weinan. The next exhibition will be the chrysanthemum show on November 8 and 9 at the town hall in Beverly.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

The New Haven County Horticultural Society had its annual outing last Thursday to Bridgeport. The visitors were met at the station by Charles E. Keith, who piloted them to the boat for Steeple Chase Island, where a real jolly time was enjoyed, including a good shore dinner, after which they visited Sea Side Park and Beardsley Park. The Arcade Bowling Alleys were next visited, sides were picked between amateurs and professionals, the professionals winning by 56. The highest single score made was 166, by H. Grove. The day's outing was thoroughly enjoyed by all.

NOTES.

The Georgia Horticultural Society will meet in Macon, September 5, 6, 7. Hon. P. J. Beckmans is president of the society.

The first meeting for the season of the Gardeners' & Florists' Club of Boston will be held at Horticultural Hall on September 19.

SAN FRANCISCO NOTES.

Today, August 25, the Board of Education voted to allow 300 window flower boxes, donated by the Park Commission to be placed on the window sills of the different schools. The rules forbidding the planting of pots in the windows still holds, but the exception is made in deference to the wishes of the Ladies' Outdoor Art League and other institutions working for the esthetic.

The officers and stockholders, with the amounts of their holdings in the Fresno Nursery Company, which has just been incorporated with \$50,000 capital stock all paid up, are as follows: President, F. H. Wilson, Dinuba, \$25,000; vice-president, Thomas Jacobs, Visalia, \$10,000; treasurer, Morpheus Jacobs, Visalia, \$10,000; secretary, Charles A. Chambers, Fresno, \$4,900; W. A. Conn, attorney, Fresno, \$100. The company's nurseries are located at Dinuba and Visalia, but their main office and salesground will be at Fresno. The purpose is to do an extensive general nursery business in both fruit and ornamental stock.

N. Symacopoulos, a long established Oakland florist and decorator, has gone to Italy to take a course in voice culture. His nephew, George Symacopoulos, takes charge of the store. For several years this store has conducted for the Southern and Union Pacific Companies their dining-car floral service to Omaha on the Central route, and to New Orleans on the Sunset route.

Experiments are being made in France in the grafting of the carnation on the root-stock of saponaria with a view to resisting the fungous attacks to which carnations are subject.

PHILADELPHIA FACTS AND FANCIES.

A new cut flower commission house opens in Philadelphia on September 1. William E. McKissick, late of the Leo Niessen Company, and formerly with Samuel S. Pennock, is the latest to branch out for himself. He has secured a fine central location at 1221 Filbert street, and being well and favorably known to the trade, has every element of success on his side. The best wishes of the trade go with him in his new venture.

Edward Reid started on his southern trip on the 29th ult., and will return about September 20. Mr. Reid has covered this territory for many years and knows every bump in the road. He early learned the lesson that the way to get business was to go after it, and his policy has always been "get out and hustle."

An interesting exhibition of cannas and a talk on convention matters will be features of the monthly meeting of the Florists' Club on September 5. Mr. Antoine Winter, of West Grove, will be one of the speakers, and we all know that gentleman for a man of ideas and experience and look forward to an interesting and enjoyable evening.

Mr. Muth, of the Cut Flower Co., reports their store alterations finished and finds same a great convenience. He went to Washington with the Philadelphia delegation, and is loud in his praises of the hospitality as well as of the business and intellectual features of the meetings.

Gilbert Baker, son of William J. Baker, and popular South Penn Square wholesaler, attended his first convention this year and is fired with enthusiasm at the grand possibilities the business promises for the wide-awake and industrious young man. He got his mental horizon widened wonderfully and will no doubt take his real progress as a twentieth century business man from August, 1905.

Hammers and saws, new floors, new shelving, new lots of things,—hearing and seeing,—all around us these days! At Reid's, at the Cut Flower Co.'s, at Niessen's, at Dreer's, at Moore & Simon's, at Michell's, and many other places, there are active preparations going on for the fall campaign. Not the least of these are the Pennock improvements, which will nearly double the floor space of that concern's already extensive establishment.

Our "merchant prince," Harry Bayersdorfer, has a new idea for the convention exhibition. It is, "put up a good show, but prohibit the taking of orders." He says the button-holing, the chasing and sparring of the anxious salesmen and their friends after probable customers have of late become very undignified, to say the least, and should be abated as a nuisance. No doubt the executive committee will duly consider this matter at the next meeting and give a judicial decision on the subject for the best interests of all concerned.

Schenectady, N. Y., was visited by a terrific hail storm on the afternoon of August 22. Among the greenhouses badly damaged were those of W. T. Hanson and J. W. Smitley.

DOINGS IN NEWPORT.

Last week was a notable one for nearly all the florists doing business here. The Pembroke Jones ball not only eclipsed every affair of this season in every particular, but it is questionable if even in the past it was equalled in so far as the decorations were concerned. Leikens had the work in hand. The ball room, an immense temporary structure erected for the occasion, was made to resemble a huge grape arbor with bay trees dotted along the sides, and a large fountain at one end with lotus in it. The supper room was decorated in pink and green exclusively. From the lofty ceiling were strung myriads of pink hydrangeas cut into small pieces and connected with the ceiling with fine wire the color of the flowers. The unequal lengths of the strings gave a graceful effect that enhanced the indescribable beauty of the whole. The side walls were artistically festooned with choice green, tied at the end of every three feet with large bows of pink ribbon. The tables were decorated with pink hollyhocks, asparagus plumosus and Sprengerii. Ten thousand hydrangeas and eight thousand hollyhocks were used in this decoration. The residence was done with a profusion of Beauties and other flowers.

On the same evening Mrs. Herman Oelrichs and Mrs. Stuyvesant Fish gave large dinner parties. In the decoration of Mrs. Oelrichs' house upwards of ten thousand sprays of lily of the valley were used. Wadley Smythe did the work there, and Hodgson had Mrs. Fish's. This shows that the plums were pretty evenly distributed last week, though, of course, Leikens had the mammoth plum, but before gaining possession of it he had the mammoth task to perform.

NEWS NOTES.

The Japan Daily Herald of August 5 devotes one full page to an interesting illustrated article on the business of the Yokohama Nursery Co., represented in this country by Suzuki & Iida of New York and their ever genial manager, Charles Loehner. The export of lily bulbs by this house amounted to about four million last year. Of fern balls from one hundred to one hundred and fifty thousand go abroad each year. Of iris roots the export is about one hundred thousand. Sago palms, azaleas, peonies and dwarf trees and horticultural curios are also large items.

A very fine floral display was seen at Hamilton County Fair at Oakley, Cincinnati, O., on Wednesday, Aug. 16. Several of our local florists competed for prizes. Edith F. Kyrk was awarded first prize on roses, carnations and gladioli, and second on lilies and asters. Henry Schwartz was first on lodge emblem and floral design, and second on original design and general display of plants. George Allen won first prize on original design, plant display, lilies, asters, lily of the valley, and second on lodge emblem, floral design, roses and gladioli. George Magrie was second on carnations and lily of the valley, and third on lodge emblem.

WASHINGTON NOTES.

With the convention over, our attention is again turned to matters of business. The trade last week was probably the worst of the season, but from now on we anticipate a gradual improvement. Stock is quite plentiful and of fairly good quality.

George Field, better known for his orchids, is cutting some fine Kaiserin and Tom Field. The latter is a seedling of the La France variety, but is much stronger and of a deeper shade of pink. It has proved an exceptionally good rose for summer use, and in this respect fills a long felt want. I am surprised that it has not been taken up more universally by commercial florists. It is the only pink rose locally that has been good enough to retail at \$2 per dozen this summer.

The Florists' Club met Saturday night, August 26, and after paying all bills found still a goodly nest egg left in the treasury, whereupon an adjourned to J. R. Freeman's store to finish up a few things not taken up before and a light lunch which he had prepared. Mr. Charles L. Seybold, of the Baltimore Gardeners' Club, was present by invitation to receive the beautiful diamond medal for the highest score in the individual bowling contest. The presentation was made by Mr. E. C. Snyder on behalf of the Washington Florists' Club and the donors, the Brunswick-Balke-Coller Co., in an exceptionally witty speech in which he good naturedly referred to Mr. Seybold as the champion knocker of the S. A. F. The company disbanded in an orderly manner after numerous toasts and general good fellowship and the rendering of several stanzas of the familiar ballad, "Good Night, Beloved, Good Night."

A FERTILIZER QUESTION.

Editor Horticulture:—Please tell me in your next issue if possible how strong and how often per gallon can these two fertilizers be used, nitrate of soda and muriate of potash, for greenhouse plants such as carnations and chrysanthemums.—Subscriber.

Nitrate of soda can be used safely, one ounce to a gallon of water; muriate of potash, one ounce to three gallons of water, every ten or twelve days according to growth of plants. On roses, early in the season would advise giving it somewhat weaker; later in the spring can stand full amount or more.

A sprinkling of nitrate of soda at the rate of one pint "crushed fine" to 100 square feet of bench, answers very well. When carnations need feeding, it can be used to good advantage in the same proportion. It is a good food for the plants but lessens the keeping qualities of the flowers, but it can be used between crops.

B. S. MYERS.

OUR FRONTSPICE.

Our frontspiece this week tells its own story. All we can add is that the variety of sweet peas shown is Earliest of All and that they are growing in the garden of J. V. Kellen, at Cohasset, Mass. Who can beat them?

SET A GOOD EXAMPLE.

Mr. Vaughan in his address at the Convention has given us a good subject for consideration, one worthy of the attention of every florist. His quotations from so many prominent men lead us to consider it more seriously. The letter from Mr. J. H. McFarland is not in any respect overdrawn; I am sorry to say in many cases it is far too real. Any one with an observing eye must have noticed the conditions surrounding many florists' places where great changes could be made at a very small cost, which would lift the owner, his employees and those about him to a higher plane, and give an artistic effect to the general surroundings. We have in this town and in many adjoining, Village Improvement Societies composed of people banded together with the object of making their home and town beautiful. Their labor and advice is freely given, and since they formed the society here, something over one year ago, there has been a wonderful change; rubbish heaps and barren places are giving way to lawns dotted with flower beds and shrubbery; fences in front of dwellings are being obliterated. A new and happier era is pervading the town and everywhere one goes flower beds meet the eye, which tells plainly that the owner has got a taste and conception of things beautiful. Home life is thus made happier and a love of nature is born in the children which will strengthen as they grow older. Why is it, then, Mr. Editor, that the florists are so lax in the care of the outside of their places? It is not because they have not time; every one of us has time to do something that will be a credit to ourselves and have a softening and educating effect on the public at large. The big fellows are just as lax in the efforts as the little ones, whether they be carnation, rose, violet, or any other grower. A housekeeper is usually known by the way her kitchen is kept, and the outside of many floral establishments very often indicate how the inside may be found. The wide-awake merchant advertises what he has and then shows it off to the best advantage, having clean surroundings, and doing everything possible that will elevate and strengthen his trade. It will not be out of place to give this little story. An old Scottish gentleman was dying. Having called his son to his bedside he whispered to him thus: "John, I am going to the home of my fathers, and before I draw my last breath I want you to listen to what I say. When you have nothing to do, plant a tree, it'll be growin' while y're sleepin'." A great many of us might take a lesson from the old man's simple words, and while we cannot all plant trees, as our holdings are not often so extensive as to permit, still we all have room enough to plant shrubs or flowers and try to do our share towards making the world so beautiful. ROBT T. MCGORUM.

Bridgeport, Conn., is suffering from an invasion of tussock moths which, unless destroyed by wholesale in the meantime, will work a great havoc among the trees next spring.

THE FALL CAMPAIGN

Are you getting ready? Fresh stocks of Wheat Sheaves, Baskets, Chiffons, Vases, Hampers, Doves, etc., etc., are now in order if you are to get your proper share of the trade. Come and see us or write.

We are grown up's! You don't want a boy to do a man's errand.

We carry the largest and most varied stocks of Florists' supplies in the world. Send for our new catalogue at once.

Have you seen our new tone ware? A beautiful and inexpensive substitute for green bronze. For a dollar this will give you as artistic an effect as you could get for fifty dollars with metal. Be in the swim.

H. BAYERSDORFER & CO.,

Largest Florists' Supply House in the World

56 North 4th Street,

PHILADELPHIA

SEED TRADE.

Now that the heavy shortage in the seed pea crop of 1905 is being fully realized, it may be well to sound a note of warning against the buying of cheap seed peas, particularly Alaskas. For the past seven or eight years many farmers in Wisconsin have been growing Alaska peas, not for any seedmen or seed growers, nor from stock seed furnished by them, but from seed of doubtful quality to begin with, and which through neglect has now become so degenerate as to be unclassified and unknown to the seed trade. Not only has the strain degenerated, but the seed is united with "Wisconsin Blues" because of having been grown in close proximity to the latter variety, and because of the negligence and carelessness of the farmers to keep the two varieties separate. Starting with what we may assume was not above a fair strain of Alaska seed eight years ago, the farmers have never spent an hour in roguing or otherwise seeking to improve the strain, the result being a degenerate stock absolutely unfit for any canner or seedsmen's use, but fit only for feed or to be sold to grocers for consumption the same as the "Wisconsin Blues." It is a regrettable fact that certain grass-seed dealers and seedsmen have sold this trash under their label, knowing full well what it was, but willing to discredit the entire seed trade of the country for a profit of 25 to 50c. per bushel. It is beyond question that parties selling this rubbish are liable for heavy damages. There is absolutely no excuse for buying such seed, as enough good seed is obtainable at a fair price, and only those foolish persons who never look at anything but price, will buy it. There are certain canners and dealers who will buy any junk if it is cheap enough, and will grow, and when such persons "get stuck" they neither have, nor are they deserving of any sympathy, yet they will ignore all the representative seedsmen, and travel all over the country buying only of the rag-tag of the trade, then fly into ludicrous rage when they are swindled.

Daisies, Daises and Daisies

We are head-quarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

FLETCHER of AUBURNDALE.
Stall 1, Boston Flower Market, Park St.

PURE CULTURE MUSHROOM SPAWN

Being the Eastern Distributing Agents for the American Manufacturers of PURE CULTURE SPAWN, we can ship Fresh Spawn on short notice at the following prices: 15 cts. per lb.; \$1.25 per 10 lbs.; \$10.00 per 100 lbs. Information as to Special Culture on application.

We have also the best make of English Virgin Mushroom Spawn, fresh importation. 8c. per lb.; 75c. per 10 lbs.; \$6.00 per 100 lbs.; \$55.00 per 1000 lbs.



CLUCAS & BODDINGTON CO.

131 WEST 26th STREET, NEW YORK CITY

Palisade Nurseries, Sparkill, N. Y.

Importers, Exporters and Growers of SEEDS, BULBS and PLANTS

In writing advertisers, mention Horticulture

FREESIAS

To American Buyers

Why not buy of American growers and save disappointment in not getting your orders filled by foreign growers. We are the old California growers, and can furnish bulbs in all sizes, $\frac{5}{8}$ inch up and down to $\frac{1}{4}$ inch, in quantities desired, and at the old prices. We do not take advantage because stocks are short. Order quickly as we will soon start to replant our surplus.

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Signal Hill Bulb Farm

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The HARDY ANNUAL of the CENTURY

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Seeds in original packets, at 2c. per packet, from seedsmen throughout the United States.

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J. M. THORBURN & CO., Cortland St., N. Y.
VAUGHAN'S SEED STORE, Chicago and N. Y.

Asparagus Plumosus Nana Seedlings

Seedlings from flats.....\$6.00 per 1000
Transplanted, large.....12.00 per 1000
Sprenger Seedlings.....6.00 per 1000
Transplanted, large.....10.00 per 1000

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We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

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WHOLESALE
BULB GROWERS

HILLEGOM, HOLLAND.

Headquarters for High Class

Hyacinths, Tulips,

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Narcissi and Paeonies

Price List Free on Application.
STRICTLY WHOLESALE.

CYCLAMEN PLANTS

Giganteum Strain

Seed taken of only selected flowers and well-bred stock. None better.

3-in., \$7.00 per 100, \$65.00 per 1000.

Seed of above strain, new crop, \$6.00 per 1000.

C. WINTERICH, Defiance, Ohio

"The Cyclamen Seedling now arrived to-day in good shape. We are well pleased, and glad to know that by packing properly plants will stand the trip."
Yours truly, PARK FLORAL CO.
San Francisco, Cal., July 12th, 1905.

Lilies, Japanese Plants

BAMBOO STAKES

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OUR SPECIALTY THIS WEEK
**Choice American
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THE LEO NIESSEN CO.
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 After July 1st Store Open 7 A.M. to 6 P.M.

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CUT DAHLIAS
 IN QUANTITY
 All Colors

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Commencing June 26th will close at 6 P. M.

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American **BEAUTIES**
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FINE ASTERS

In writing advertisers, mention Horticulture

WHOLESALE FLOWER MARKETS
 TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Aug. 22	ST. LOUIS Aug. 21	PHILA. Aug. 22	BOSTON Aug. 22
ROSES				
Am. Beauty, Fan, & Sp.	30.00 to 4.00	25.00 to 15.00	25.00 to 15.00	25.00 to 15.00
" Extra.	20.00 to 25.00	15.00 to 12.50	15.00 to 12.50	15.00 to 12.50
" No. 1.	10.00 to 15.00	10.00 to 12.50	10.00 to 12.50	10.00 to 12.50
" Lower grades.	3.00 to 8.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Bride & Maid—Fan, & Sp.	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
" Extra.	3.00 to 3.50	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
" No. 1 and Lower gr.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Liberty, Fan, & Special.	5.00 to 6.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
" Ordinary.	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Carnot and Kaiser.	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Golden Gate, Chateaux, Fancy.	5.00 to 6.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
" Ordinary.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
CARNATIONS				
Fancy Class.	2.00 to 3.00	1.50 to 2.00	1.50 to 2.00	1.50 to 2.00
General Class and Lower grades.	.75 to 1.50	.50 to 1.00	.50 to 1.00	.75 to 1.00
ORCHIDS				
Cattleyas.	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00	50.00 to 60.00
MISCELLANEOUS				
Asters.	1.00 to 1.50	1.00 to 1.50	.50 to 2.00	.35 to .75
Lilies.	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	4.00 to 5.00
Lily of the Valley.	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	4.00 to 5.00
Gladioli.	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
Sweet Peas.	.20 to .50	.50 to 1.00	.50 to 1.00	.10 to .15
Adiantum Cuneatum.	.10 to .75	.10 to .75	.75 to .75	.10 to .100
" Crownatum.	.10 to .75	.10 to .75	1.25 to 1.50	1.00 to 1.00
Dahlias.	10.00 to 12.00	12.00 to 15.00	10.00 to 12.00	10.00 to 12.00
Simulax.	10.00 to 12.00	12.00 to 15.00	10.00 to 12.00	10.00 to 12.00
Asparagus Plumosus, strings.	10.00 to 12.00	12.00 to 15.00	10.00 to 12.00	10.00 to 12.00
" bunches.	20.00 to 25.00	25.00 to 30.00	20.00 to 25.00	20.00 to 25.00
" Sprenger.	10.00 to 12.00	12.00 to 15.00	10.00 to 12.00	10.00 to 12.00

McKISSICK OPENS SEPT. 4th

#Grows take notice. #Good stock wanted. Come and see me at once about new seasons arrangements.

W. E. McKISSICK, WHOLESALE FLORIST 1614 Filbert St., PHILADELPHIA

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Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

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CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids

Valley Violets and all Cut Flowers

A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut Flower and Supply Wants to advantage

E. F. WINTERSON CO. 45-47-49 Wabash

CATALOGUE FREE CHICAGO

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WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

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TO BUYERS

Patronize our advertisers, they will treat you right

Flower Market Reports.

Dark and generally cool BOSTON weather has retarded the rose crop sufficiently to put the American Beauty on a much better footing this week and better prices prevail. Other roses are gradually improving in quality, but the cut of small flowers from young plants is yet enormous, and prices stand about as previously quoted. Carnations show little improvement thus far, but asters of the finer types are putting in an appearance, and there is little need for the carnation at present. Out-door material is in evidence largely in the florists' windows.

Stock in most lines is CINCINNATI scarce, and with considerable funeral work around causes the wholesale houses to be cleaned out daily. The heavy rains we have experienced of late have had a telling effect on all out-door stock, making supply short.

Business conditions the LOUISVILLE past week were a little slow. There have been no good carnations available; roses have been scarce; but asters have been plentiful and have sold well. Other stock has met expectations.

It is to be hoped that the coming in of September may see an improvement in the conditions which have prevailed in the cut flower markets throughout August. Although we hear of some seasonable activity at the various summer resorts, its influence does not touch the wholesale trade here, which has been obliged to look for an outlet locally for a product about fifty times as large as there is any demand for. There is no use in mentioning the items that are in surplus—the list includes everything, both greenhouse and out-door product. On all lines the receipts are much heavier than ever before in August, and only a small fraction finds a legitimate sale; the balance takes "bargain-counter" luck, which in the wholesale flower trade at this season of the year rarely pays the cost of shipping.

Kaiserin, Bride, and PHILA- Bridesmaid roses were DELPHIA more plentiful the past week, and considerably beyond the demand. Beauties steadily improve as to quality. An improved tone was noticeable in the lily of the valley market, which has now largely recovered from the recent sluggishness. Asters are in their flush now, but are much appreciated, especially the whites and purples of the better grades; not enough good white, and too many pink and red. Dahlias are very fair for the season, and improving all the time. Gladioli are nearly over. A few rubrum lilies still around. Tuberoses, cosmos, gaillardias, and Centaurea imperialis are now in and help to brighten up the market. Orchids very scarce.

Trade the passing SAN week has not been FRANCISCO enough to go around. With the exception of one big wedding, and two large funerals the downtown dealers have been comparatively at rest, and the same may be said of the South Sid-

and West End florists. L. Wickstrom, who has just returned from a two weeks' visit in Seattle, reports that trade up that way is much better and prices are maintained at a remunerative scale. The shop windows are aglow with rubrum, album and auratum lilies, gladioli and amaryllis, of which there is a great abundance. Asters are more than plentiful. Ferns are in good supply and cheap, and greens of all sorts are abundant.

GREENHOUSES BUILDING OR PROJECTED.

Bicknell, Ind.—F. C. Winter, one house.

Utica, N. Y.—Milgate Bros., one house.

Peabody, Mass.—J. M. Ward & Co., large additions.

Woodlawn, N. Y.—Mrs. Peter Roemer, house 20x70.

Williamstown, Mass.—George Walker, range of houses.

Brooklyn, N. Y.—G. Fisher, two houses, each 16x100.

Highland Mills, N. Y.—T. G. Williams, two houses, each 20x100.

CATALOGUES RECEIVED.

The Leedle Floral Co., Springfield, O. September wholesale list of roses.

H. Plath, San Francisco, Cal. Wholesale price list of ferns, asparagus and palms for 1905.

Thomas Meehan & Sons, Inc., Dreshertown, Pa. Specimen evergreens for August and September planting.

BUSINESS CHANGES.

Toner & Sanborn succeed C. P. Jones at 52 William street, Burlington, Vt.

The Leonard-Coates Nursey Co., San Francisco, Cal., has been incorporated. Capital \$75,000.

The Shugart-Owen Seed Co. has been incorporated at Council Bluffs, Ia., with capital \$50,000.

Make all men your well-wishers and then in the years' steady sitting Some of them turn into friends.

Friends are the sunshine of life. True luck consists not in holding the best of the cards at the table:

Luckiest he who knows just when to rise and go home.

—John Hay.

Stafford
Florists' Signs
For Windows

FAC-SIMILE OF SIGNATURE, ANY SIZE, METAL, ENAMEL OR GLASS

N. STAFFORD CO.

67 Fulton Street New York

ROBERT J. DYSART,
Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted
Merchants Bank Building

28 STATE ST., BOSTON
Telephone, Main 58

Florists Out of Town

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th St., New York

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A. Gude & Bro.

FLORISTS

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Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

FRED C. WEBER FLORIST

4326-28 ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 667

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per too, \$5.
Script Letters, 3/4. Fastened with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Manager
84 Hawley Street, BOSTON, MASS.

WILLIAM J. BOAS & CO.
MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples

In writing advertisers, mention Horticulture

Reed & Keller
122 W. 25th St. New York, N. Y.
Importers and Manufacturers of
FLORISTS' SUPPLIES

Galax Leaves and all Decorative Greens
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	Last Half of Week ending Aug. 26 1905	First Half of Week beginning Aug. 28 1905		Last Half of Week ending Aug. 26 1905	First Half of Week beginning Aug. 28 1905
ROSES			General Class and Lower grades...	.50 to .75	.50 to .75
Am. Beauty, fan and sp.....	8.00 to 15.00	8.00 to 17.00	ORCHIDS		
" extra.....	4.00 to 6.00	4.00 to 6.00	Cattleyas.....	..... to 75.00	..... to 75.00
" No. 1.....	2.00 to 4.00	2.00 to 4.00	MISCELLANEOUS		
" Lower grades.....	.50 to 1.00	.50 to 1.00	Asters.....	.25 to 1.00	.25 to 1.00
Bride & "Maid, fan and sp.....	2.00 to 4.00	2.00 to 4.00	Lilies.....	8.00 to 10.00	2.00 to 10.00
" Ordinary.....	1.00 to 2.00	1.00 to 2.00	Lily of the Valley.....	..... to 1.00	..... to 3.00
Liberty, fan, and sp.....	3.00 to 10.00	8.00 to 10.00	Sweet Peas, bunches.....	..... to 1.00	..... to 1.00
" extra.....	4.00 to 6.00	4.00 to 6.00	Adiantum Cuneatum.....	..... to .50	..... to .50
" No. 1.....	1.00 to 2.00	1.00 to 2.00	" Crispanum.....	.25 to 1.00	.25 to 1.00
" Lower grades.....	3.00 to 10.00	8.00 to 10.00	Gladolus.....	5.00 to 8.00	..... to 8.00
Golden Gate, Chateaux, fancy....	2.00 to 4.00	2.00 to 4.00	Smilax.....	25.00 to 50.00	25.00 to 50.00
" Ordinary.....	.25 to 1.00	.25 to 1.00	Asparagus Plumosus, strings....	15.00 to 25.00	15.00 to 25.00
Meteor.....	.50 to 2.00	.50 to 2.00	Asparagus..... bunches....	..... to 25.00	..... to 25.00
Carnot and Kaiserin.....	.25 to 4.00	.25 to 4.00	Asparagus Sprengeri..... to 10.00 to 10.00
CARNATIONS					
Fancy Class.....	1.00 to 2.00	1.00 to 2.00			

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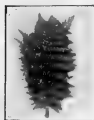
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ROSES				
Am. Beauty, fan, and sp...	10 24.00	10 24.00	10 25.00	10 25.00
" extra.....	18.00	10 20.00	10 20.00	10 20.00
" No. 1.....	10.00	10 15 10	10 15 10	10 15 10
" Lower grades.....	5.00	10 8 10	10 8 10	10 8 10
Bride and Maid, fan, and sp...	10 4.00	10 3 10	10 3 10	10 3 10
" extra.....	2.50	10 3 10	10 3 10	10 3 10
" No. 1 and Lower gr...	1.50	10 2 10	10 2 10	10 2 10
" Ordinary.....	10 3 10	10 3 10	10 3 10	10 3 10
Carnot and Kaseb.....	10 2 10	10 2 10	10 2 10	10 2 10
Golden Gate, Chateaux, Fancy.....	2 10 10	10 4 10	10 4 10	10 4 10
" Ordinary.....	10 1 10	10 1 10	10 1 10	10 1 10
CARNATIONS				
Fancy Class.....	1.00	10 2 10	10 2 10	10 2 10
General Class.....	10 1 10	10 1 10	10 1 10	10 1 10
MISCELLANEOUS				
Lilacs.....	10 4 10	10 4 10	10 4 10	10 4 10
Lily of the Valley.....	10 1 10	10 1 10	10 1 10	10 1 10
Gladioli.....	10 1 10	10 1 10	10 1 10	10 1 10
Sweet Peas.....	10 1 10	10 1 10	10 1 10	10 1 10
Adiantum Cuneatum.....	10 1 10	10 1 10	10 1 10	10 1 10
" Cuneatum.....	10 1 10	10 1 10	10 1 10	10 1 10
Dahlias.....	10 1 10	10 1 10	10 1 10	10 1 10
Smilax.....	10 1 10	10 1 10	10 1 10	10 1 10
Asparagus Plumosus, string.....	10 5 10	10 5 10	10 5 10	10 5 10
" Sun-hats.....	10 5 10	10 5 10	10 5 10	10 5 10
" Sprenger.....	25 10 35 10	25 10 35 10	25 10 35 10	25 10 35 10
Asters.....	25 1 1 10	25 1 1 10	25 1 1 10	25 1 1 10
Gladioli.....	10 1 10	10 1 10	10 1 10	10 1 10

J.A. BUDLONG

37-39 Randolph Street, CHICAGO.

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

CUT FLOWERS

List of Advertisers

Page	Page
Aschmann G. 242	McKellar Charles W. 256
Baker Wm. J. 256	McKissick W. E. 256
Baker & Co. 244	McLanahan Jas. 258
Bambrick Thos. H. 252	Merriam Material Co. 252
Barrows H. H. & Son, 242	Michell H. F. 246
Bayerdorfer H. & Co. 255	Michigan Cut Flower Exchange 254
Boas W. J. & Co. 257	Milling Charles 250
Boddington A. T. 244	Mising Frank 258
Boston Bros. 259	Moninger J. C. 262
Boston Florist Letter Co. 257	Mr. Hissarik Nurseries 259
Beck Joseph & Sons 246	Murdock J. B. 245
Breitmeyer J. J. 248	Nielsen L. C. 256
Budlong J. A. 250	Peacock L. K. 246
Burham Hinchings 254	Pennock Samuel 244
Fleeson Co. 254	Perkins John 259
Burpee W. A. & Co. 246	Phila. Cut Flower Co. 244
Chicago House Wrecking Co. 262	Pierston F. R. Co. 244
Chicago Carnation Co. 244	Pittsburg Cut Flower Co. 250
Clucas & Boddington 244	Poehlmann Bros. C. 245
Cooke G. H. 257	Pye R. C. 244
Coolidge Bros. 245	Rawson W. W. & Co. 246
Cottage Gardens 245	Raynor John L. 258
De Nijls Bros. 245	Reed & Keller 257
Dilger Wm. 259	Rees & Comperte 255
Dorrance, Benj. 245	Reinberg Peter 256
Dreer H. A. 255-262	Robinson H. M. & Co. 250
Dysart R. C. 257	Rohrs Julius 242
Elliott Wm. & Son. 244	Rolker August & Son. 245
Estlin G. 263	Sander & Son. 242
Ernest W. H. 262	Schillo Lumber Co. 263
Fargues R. J. & Co. 246	Scotley John A. 253
Fletcher F. W. 256	Scott John. 242
Ford Co. 258	Sharp, Partridge & Co. 263
Forest Nurseries & Seed Co. 245	Sheridan W. F. 258
Fromow W. & Sons. 245	Sievers J. H. & Co. 244
Ghorney W. 258	Siggers E. S. 262
Grey T. J. & Co. 246	Situations & Wants. 242
Gude A. & Bro. 257	Skidley S. S. 244
Gurney Heater Mfg. Co. 262	Stafford N. C. 257
Gutman Alex. J. 258	Stearns A. T. Lumber Co. 253
Hail Alex. 263	Sutherland Geo. A. Co. 259
Hammond J. A. 259	Suzuki & Iida. 255
Hanson G. 242	Sylvester H. H. 263
Heller & Co. 246	Thomas W. H. 245
Hews A. H. & Co. 263	Thorburn J. M. & Co. 246
Hill E. G. Co. 244	Torty Chas. H. 246
Hippard E. 262	Traendly & Schendel. 245
Hollis Geo. 245	Troy, J. H. 245
Holly Castle Chas. 254	Vaughan and Sperry. 255
Horan E. C. 259	Vaughan's Seed Store. 255
Hub Eng. Co. 262	Walsh M. H. 245
Hunt E. H. 256	Ward R. Ph. M. Co. 246
Joynt John 245	Watson G. C. 246
Kasting W. F. 295	Weber F. C. 257
Kerwan Co., The. 259	Weber H. & Sons. 246
Kilbourn, K. 245	Welch Bros. 256
King Cons. Co. 263	Weiland & Rusch. 256
Klopper A. 263	Wietor Bros. 256
Lager & Hurrell. 242	Winterich C. 255
Lang Julius. 259	Winterson E. F. 256
Leuthy A. & Co. 242	Yalaha Conservatories. 255
McCarthy N. F. & Co. 259	Young & Nugent. 257
McConnell Alex. 258	Young Thos. Jnr. 258
	Zvolnek Ant. C. 246

Buyers' Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BEDDING PLANTS.

G. Aschmann, 1012 Ontario St., Philadelphia.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.
For page see List of Advertisers.

CLUCAS & BODDINGTON CO.

121 W. 23d St., New York.
Lilies, Freesias, Paper Whites, Romans.
W. W. Rawson & Co., 12 & 13 F. Squire, Boston.

Bermuda Growth Harris and Freesias.
For page see List of Advertisers.

De Nijls Bros., Hillegom-Holland.
For page see List of Advertisers.

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CALLA BULBS.

A. Mitting, 17-23 Kennan St., Santa Cruz, Cal.

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.
Field Grown.
For page see List of Advertisers.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.

Hannah Hobbs.
For page see List of Advertisers.

Robert C. Fre, Nyack, N. Y.
For page see List of Advertisers.

A. T. Boddington, 342 W. 14th St., New York.
Carnation Plants.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
My Maryland, Jessica.
For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.
My Maryland, Jessica.
For page see List of Advertisers.

Backer & Co., Billerica, Mass.
Field Grown.
For page see List of Advertisers.

F. R. Pierston Co., Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lilies.
For page see List of Advertisers.

E. A. & W. K. Wood, Newton, Mass.
Field Grown.
For page see List of Advertisers.

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

R. Kilbourn, Clinton, N. Y.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNES.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

H. H. Berger & Co., 47 Barclay St., New York.
Send for List.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 25th and M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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Chas. H. Totty, Madison, N. J.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago, Ill.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.
For page see List of Advertisers.

HELP.

Thos. H. Bambrick, 34 S. 7th St.,
Philadelphia, Pa.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 and 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

R. M. Ward & Co., New York.
For page see List of Advertisers.

JAPAN BAMBOO CANES.

H. H. Berger & Co., 47 Barclay St.,
New York.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

Ralph M. Ward & Co., 12 W. Broadway,
New York.
For page see List of Advertisers.

Bermuda Harrisli Bulbs.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia, Pa.
For page see List of Advertisers.

LILY BULBS.

H. H. Berger & Co., 47 Barclay St.,
New York.

A. T. Boddington, New York.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heiler & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Clucas & Boddington Co., 131 W. 23rd St.,
New York.
For page see List of Advertisers.

Pure Culture Spawn.

H. F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and
New York.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Stamford, N. J.
For page see List of Advertisers.

Cuttleya, Scroeder, England.
For page see List of Advertisers.

Sander, St. Albans, England.
For page see List of Advertisers.

Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

PAEONIES.

George Hof's, S. Weymouth, Mass.
For page see List of Advertisers.

Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

PANSY SEED.

Denys Zirngibel, Needham, Mass.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Godfrey Aschmann, Phila., Pa.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Bretmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
For page see List of Advertisers.

Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

Puehlinman Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

Baur Floral Co., Erie, Pa.
For page see List of Advertisers.

Beid Dorance, Dorance, Pa.
For page see List of Advertisers.

Killam and Richmond
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Brock & Sons,
31 and 32 N. Market St., Boston.
For page see List of Advertisers.

SEEDS.—Continued.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

R. & J. Farquhar & Co., 6 and 7 S. Market
St., New York.
For page see List of Advertisers.

Hardy Perennial Flower Seeds.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.
For page see List of Advertisers.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

G. C. Watson, 1614 Ludlow St.,
Philadelphia.
For page see List of Advertisers.

Sweet Pea Christmas.
For page see List of Advertisers.

Ant. C. Zvolanek, Round Brook, N. J.
For page see List of Advertisers.

New crop Sweet Pea Christmas.
For page see List of Advertisers.

Grass Seed, 1789 High Grade Grass, Clover, and
For page see List of Advertisers.

SIGNS, BADGES, TIME-SAVING DEVICES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

STEAM TRAP.

E. H. Hppard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 and 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
For page see List of Advertisers.

J. C. Moulner Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.

N. P. McCarthy & Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

George A. Sutherland & Co., 34 Hawley
St., Boston.
For page see List of Advertisers.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. F. Kasting, 353-37 Elliott St., Buf-
falo, N. Y.

CHICAGO.

For page see List of Advertisers.

J. A. Budding, 37 Randolph St., Chicago.
For page see List of Advertisers.

E. H. Hunt, 76-78 Wabash Ave., Chicago.
For page see List of Advertisers.

Chas. W. McKellar, 51 Wabash Ave., Chicago.
For page see List of Advertisers.

Reinberg, 51 Wabash Ave., Chicago.
For page see List of Advertisers.

A. L. Randall Co., 21 Randolph St., Chicago.
For page see List of Advertisers.

Welland & Risch, 59 Wabash Ave., Chicago.
For page see List of Advertisers.

Wietor Bros., 51 Wabash Ave., Chicago.
For page see List of Advertisers.

Vaughan & Sperry, 60 Wabash Ave., Chicago.
For page see List of Advertisers.

E. F. Whiterson Co., 45, 47, 49 Wabash
Ave., Chicago.

CINCINNATI.

Ohio Cut Flower Co., 229 E. 3d St.
For page see List of Advertisers.

Wm. Murphy, 128 E. 3d St.
For page see List of Advertisers.

DETROIT.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 35 and 40
Miami Ave.

NEW YORK.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 20th St., New
York.
For page see List of Advertisers.

Ford Bros., 48 West 28th St., New York.
For page see List of Advertisers.

Wm. Groomley, 57 W. 28th St., New York.
For page see List of Advertisers.

Alex. J. Guttmann, 52 West 29th St.,
New York.
For page see List of Advertisers.

Jas. A. Hammond, 113 West 30th St., New
York.
For page see List of Advertisers.

E. C. Horan, 55 West 28th St., New York.
For page see List of Advertisers.

Julius Laug, 53 West 30th St., New York.
For page see List of Advertisers.

James McManus, 50 W. 30th St., New York.
For page see List of Advertisers.

Chas. Millang, 50 West 29th St., New York.
For page see List of Advertisers.

Frank Millang, 55-57 W. 26th St., New
York.
For page see List of Advertisers.

John J. Perkins, 115 W. 30th St., New York.
For page see List of Advertisers.

John L. Raynor, 49 W. 28th St., New York.
For page see List of Advertisers.

W. P. Sheridan, 113 West 30th St., New
York.
For page see List of Advertisers.

Trendly & Schenck, 44 W. 28th St., New
York.

PHILADELPHIA.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

Leo Nissen, Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612 18 Ludlow St., Phila-
delphia, Pa.

Philis Cut Flower Co., 1516-18 Sanson St.,
Philadelphia, Pa.

PITTSBURG.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 501
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

THOMSON'S MANURES.

R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.

VIOLETS, CAMPBELL.

W. H. Thomas, Covent Sta., Morris
Co., N. J.
For page see List of Advertisers.

CYPRIPEDIUM LONGIFOLIUM AND SEDENI.

O. A. Miller, 24 Clinton St., Newark, N. J.
For page see List of Advertisers.

DECORATIVE PLANTS.

Godfrey Aschmann, Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORIST.

W. E. McKissick, 1614 Filbert St., Phila-
delphia, Pa.
For page see List of Advertisers.

FREESIAS.

Rees & Compere, Long Beach, Cal.
For page see List of Advertisers.

PROSPERITY CARNATIONS.

Poehlmann Bros. Co., Morton Grove, Ill.
For page see List of Advertisers.

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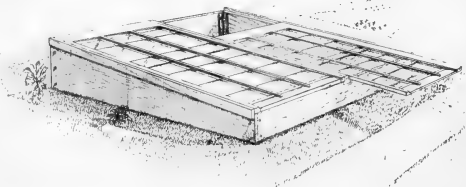
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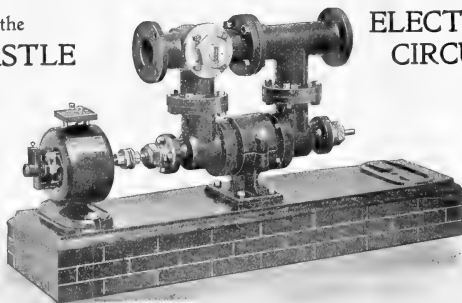
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HORTICULTURE

Vol. II.

SEPTEMBER 9, 1905

No. 11



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At A. Leuthy & Co.'s, Roslindale, Mass.

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HORTICULTURE

VOL II

SEPTEMBER 9, 1905

NO. 11

PUBLISHED WEEKLY BY

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CONTENTS OF THIS ISSUE

FRONTISPIECE Summer Culture of Araucarias

CANNA MADAME STROHLEIN—Illustrated—Prof.

Waugh 271

LIBRARY NOTES—C. Harman Payne 271

EFFECT OF THE WINTER ON CONIFERS T. D.

Hatfield 272

NOVELTIES AT RIVERTON—Illustrated—G. C. W. 273

EDITORIAL 274

ARRIVAL OF CYPRIPEDIUM FAIRIEANUM—Illus. 275

NEWS OF THE CLUBS AND SOCIETIES

Buffalo Florists' Club 276

Tarrytown Horticultural Society 276

Newport Horticultural Society 276

Horticultural Society of Chicago 276

Florists' Club of Philadelphia 276

National Nut Growers' Association 276

Massachusetts Horticultural Society 277

Chrysanthemum Society of America 277

New Jersey Floricultural Society 277

PROMOTING HORTICULTURE AMONG CHILDREN

—Illustrated—Susan B. Sipe 278

CUT FLOWER MARKET REPORTS

Boston, Buffalo, Chicago, Cleveland, Louisville,

Newport, New York, Philadelphia 281

MISCELLANEOUS

After Adjournment 275

Goodby, graft 275

Orchids and Orchids 275

Personal 275

Exotics in Out-door Decoration 275

Improving Waste Land 275

What They Say of Us 275

Obituary 275

New Bedford and Her Common—Thos. White 277

San Francisco Notes 277

Philadelphia News Notes 277

Business Changes 277

News Notes 278

Catalogues Received 286

List of Patents 286

Greenhouses Building or Projected 286

LOCAL REPRESENTATIVES

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MICHELL'S GIANT STRAIN

Grown by one of the leading Cyclamen Growers in Europe, who has a world-wide reputation for this strain.

	100 Seeds	1000 Seeds
Cicanteum Album. White.....	\$0 75	\$0 00
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Bulbs are now arriving. Send us your list of wants. We are headquarters. Wholesale List now ready. Shall we mail you a copy?

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NOW READY FOR DELIVERY

Would be pleased to quote prices on any quantity.



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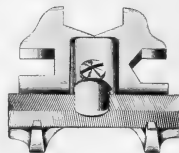
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DANVILLE, N. Y., Aug. 28, 1905.

Mr. George C. Watson, Phila.

Dear Sir—I send you P. O. for six of the Lawn Mower Sharpeners. The people are slow about such things but I think will get waked up to the idea that they are a good thing to have. I have let mine out for trial and they evidently are well pleased with it. I will order six more very soon. With scarce an effort four were sold in a few minutes.

Yours truly

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EVERY ONE SHOULD HAVE IT. 75 CENTS EACH
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THOMPSON'S VINE AND PLANT MANURE is the result of long experience and experiment. It is so compounded as to combine immediate with lasting effects, and is a perfect food for the Vine and other fruit-bearing plants; also for nearly all other Plants and Vegetables.

112 lbs. \$7.00, 56 lbs. \$4.00, 28 lbs. \$2.25
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An excellent stimulant for Top-Dressing Chrysanthemums and all flowering plants. This Manure is commanding larger sales every year, and is used with best results by all the leading growers.

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Canna—Madame Strohlein



The canna Mrs. G. A. Strohlein is not precisely a novelty, yet it has received very little notice. Messrs. Henry A. Dreer write me that they have offered it for sale at various times, but that it has not been a success. They say that it is one of the finest large-flowering, dark-leaved varieties that they have ever known, but that in the climate of Philadelphia it rarely produces bloom before the middle of August and then only very sparingly. Our experience with this variety at the Massachusetts Agricultural College has been much more favorable. I saw the variety first at the flower shows in England two years ago and was favorably impressed with it. I secured some plants and we have been growing it with much satisfaction ever since. With us it is remarkably free flowering and especially so immediately after planting out in the spring. The spikes are very large and full and clean themselves specially well. The flowers are extra large and of a bright, rich dark red. Their color makes them difficult to photograph so that any pictures of this variety must be disappointing. The foliage is very dark and rich, even better than Black Beauty which was boomed recently.

Of course this variety may not do so well in other localities, but at the Agricultural College we consider it a prize sort.

Wm. H. H. H.

Amherst, Mass.

Library Notes

Gardening books, either ancient or modern, have a peculiar charm for a certain section of horticulturists on this side of the Atlantic and there are numerous collectors in this country who possess valuable horticultural libraries. Of late years there has been a vast improvement in the style and get-up generally of books relating to gardening in all its branches. Publishers vie with each other in turning out handsome volumes that are at once triumphs of the printer's and the artist's skill. There are probably none that have done so much in this way as the publishers of "The Country Life Library," whose "Gardens Old and New," "The Century Book of Gardening," and "Gardening for Beginners," are really most handsome volumes in every respect. Some other works executed in the same high class typographical style are "Wall and Water Gardens," "Lilies for English Gardens," "Sweet Violets and Pansies," "Carnations Picotees and the Wild and Garden Pinks," all of which emanate from the same publishers. One of their most recent additions to high class garden literature is "The Gardens of Italy," a subject of almost universal interest to those who have ever visited that country which is pre-eminently the earliest home of the garden. This work is in two large volumes and contains about 300 plates executed from photographs specially taken for the book.

Another very handsome, high class garden book recently published by Messrs. Longmans of London is entitled, "Some English Gardens." This is a finely executed folio, beautifully printed and containing fifty reproductions in color after drawings by George S. Elgood. Views in some of our famous English gardens are given not the least attractive being Brockenhurst, the garden gate; Hollyhocks at Blyborough; The Pergola, Great Tangle; Bulwick, The Gateway; Montacute, Sunflowers; The Yew Arbor, Lynde; St. Anne's, Clontarf; The Deavry Garden, Rochester; The Terrace Steps, Penhurst; and Cleve Prior, Sunflowers, in all of which the fine effects of garden color are beautifully reproduced. Other places of repute artistically dealt with include Bramham, Melbourne, Berkeley Castle, Rockingham, Crashes, Ramscliffe, Levens, Speke Hall, etc.

Of an entirely different kind is John Parkinson's *Paradisus in sole Paradisus Terrestris*. A little more than a year ago Messrs. Methuen published a fac-simile reproduction of this old work which has been a most successful undertaking. The edition is that of 1629 and it was issued to subscribers at thirty shillings net. Raised on the day of publication to two guineas, it was a few months later put up to three guineas, then to four and the remaining copies will shortly be raised to five guineas each.

Encouraged by the success of their venture Messrs. Methuen now propose to consider the reproduction of Gerard's *Herbal* and in their preliminary prospectus they say:

But as this book is more than twice the length of the *Paradisus*, extending to 1392 pages of text against Parkinson's 612 pages, in addition to copious preliminaries, tables and indexes, Messrs. Methuen do not propose to undertake such a venture until they are assured of the necessary support. If this is forthcoming, they will produce an edition of Gerard's great book, page for page and word for word with the original, including the 1800 woodcuts with which the first edition is adorned. The price of this book to subscribers before publication will be £3 3s. 6d. net, which price will be raised on the publication of the book to £4 4s. 6d. net. Subscribers

are requested to send their names as soon as possible to their booksellers or to Messrs. Methuen.

The edition will be that of 1597. As both Parkinson's and Gerarde's original works are of considerable value and as these fac-simile reproductions are for all practical purposes equally serviceable it seems that subscribers have a reasonable prospect of their copies being not only useful but profitable investments.

On the continent the art of producing handsome books on gardening appears to be somewhat in its infancy. But there are a few noteworthy exceptions. It may possibly be useful to draw attention to a recently published work not, however, exclusively, but primarily intended for gardeners, florists and nurserymen. It is published by the Librairie Horticole de Paris and is entitled "Repertoire de Couleurs." This is a work in two volumes consisting of 365 plates in color. Each color is shown in four distinct shades with the name in French, German, English, Spanish and Italian. The idea is to ensure uniformity of color description in flowers, foliage and fruits. There is a volume of letter press explanatory of the color plates and it is decidedly a work unique in its character.

Of works of minor importance there is of course an ever flowing stream. The series of handbooks of practical gardening issued by John Lane has recently been augmented by the publication of "The Book of the Lily," by Wm. Goldring, and "The Book of the Scented Garden," by F. W. Burbidge. To the bibliographer, however, one of the most interesting publications is the supplement to the Library Catalogue of the National Horticultural Society of France, which came out a few months ago.

Chasman Payne

Effects of the Winter on Conifers

The winter of 1903-4 was unusually severe, but in many ways not more so than that of 1904-5. Both were severe; yet the effects of each upon vegetation were different, or at least apparently so, for no doubt the injury done during the former winter left many plants, trees and shrubs especially, in a weakened condition. Rhododendrons and deciduous trees suffered more last winter, evergreens—meaning conifers—less. There were contributing causes, no doubt. We went into the winter of 1904-5 with a rain deficiency,—a most serious condition; and it appears to many, though not to the writer in every case, that this accounts for the greater part of the injury done. Among those which suffered severely were trees and shrubs which had lived and flourished for a quarter of a century; and indigenous ones too. Even admitting rain deficiency to be the cause of so much loss, why should it be more among deciduous than among coniferous evergreens? (Be it remembered that my remarks refer to Wellesley only.)

Conifers suffered more in the winter of 1903-4. Of many *Cedrus atlantica*, which had existed for several years, not one survived. Small plants of *Torreya nucifera* were much injured, but larger plants, 6-8 ft., came through perfectly. It seems these handsome shade-loving evergreens will do well when established. Several firs were injured so much that they made no growth. The buds were renewed, that was all, and we waited with doubt as to the outcome of another severe winter. One gentleman of large experience felt sure our large *Abies Nordmanni-*

ana would die, but we had known young trees freshly planted not to make any growth the first season and grow well the next, so we had hope. So it happily turned out. It could not be said that this injury came from spring frosts for we could see well enough that the tree-buds were injured before the time to make new growth came. Among the most injured were *Abies Nordmanniana*, *A. cephalonica*, and *A. cilicica*. No spruces suffered.

The green form of the common English yew, *Taxus baccata*, will not endure even an ordinary winter; neither will *T. b. adpressa*. Strange to say, the golden form—*T. b. aurea*, stands tolerably well. It suffered somewhat, but is now filling out nicely. We have some very large bushes of it. *T. b. stricta* stands tolerably well too. The hardiest, and for this climate, much the best yews are the Japanese *T. cuspidata*, and *T. cuspidata* var. *brevifolia*. The last named is a compact, rather spreading grower, of a striking glossy, deep black green. It is known generally in the trade as *T. brevifolia*, but this is wrong, for *T. brevifolia* is a western species from the Pacific coast and scarcely hardy here.

Several years ago some very fine specimens of *Retinospora pisifera aurea* were killed on the Italian garden, and in other parts of the estate they suffered severely. Since then they have stood perfectly and now are in the very best condition. *R. obtusa* has proved the tenderest. They, however, are much improved. *Thuja gigantea*, which came through the winter of 1903-4 in good condition, suffered badly last winter. But this is not the first time it has been injured. It sunburns easily in spring time, and although we may grow large specimens, there will be seasons when they will be disfigured.

All the Colorado concolor firs (*A. concolor*) are in splendid condition. The Californian forms, known originally as *A. lasiocarpa* and *A. Parsoniana*, do not look so happy. They have made their regular growth every season but for many years have looked thin. They cannot be said to be short-lived trees, however, for we have large specimens 50 feet high, but they lose their lower branches. The true *A. lasiocarpa* is an upland, or mountain form, from Arizona. We have a fine specimen about fifteen feet high, which is in perfect health, and promises to make a handsome tree.

An interesting thing I associate with these severe winters is the tendency to fruit abundantly this season of all coniferous trees. Any interruption seems to induce this. It is said that the last expiring effort of a tree is to reproduce itself. I have seen the most miserable looking black spruces in the swamps of Nova Scotia, with only a bunch of branches on the top, completely covered with cones. We moved two Colorado concolor firs in winter of 1903-4, and though small trees, both are bearing cones, while large trees, and much older ones, have never borne fruit. One on an adjoining estate, moved at the same time is also bearing cones, but these are blue ones and I take it it is the variety of *A. c. violacea*. All our other concolor firs, including the varieties known as *A. Parsoniana* and *A. lasiocarpa* are bearing green cones; *A. Nordmanniana* and *A. cephalonica* heavily. *A. brachyphylla* is fruiting for the first time, and is bearing handsome purple cones, with a rose-colored bar. *A. Veitchii*, also for the first time, is covered, on the upper part, with deep blue cylindrical cones, which make a striking picture in the sunlight.

J. D. Hatfield

Novelties at Riverton this Season

When we say Riverton, of course we mean Dreer's. There is always something interesting at this up-to-date establishment, but more especially now, when the latest aspirants in flowers and plants have had their full season's innings and can be sized up.

The hybrid delphiniums are very fine just now, and present a glorious expanse of blue, as if a big section of the sky had dropped down on the Riverton meadows. Of the well-known formosum there is a big expanse; but the new gold medal hybrids surpass it. These have great spikes two to three feet long, mostly in shades of light blue. They came originally from England, the fringed, big, handsome flowers that gorge you with color and glorious variations, and singles scarcely second in their immense dimensions, with bursts of crimson and blue and purple and white. Our photograph gives a glimpse of a section of one of the fields where the men are busy saving the seeds for next season's demand. The selecting and hybridizing goes on every year with the most painstaking effort until Dreer has now the best record for petunias in the country, although, of course, the European specialists furnished the basis to commence on, and are still carefully watched. In this connection "the glorious climate of California" must not be forgotten, as a number of very good selections have developed there, and have been incorporated with the others.

Can you fancy one hundred thousand plants of hardy phlox in full bloom? Let me tell you it is worth seeing. Here they are, brilliant and shining in the afternoon sun, a feast! From the pure white of *Jeanne d'Arc* to the fiery scarlet of *Coquelicot* every color except yellow is represented and the result—magnificent. We noted as



FIELD OF PHLOX.

extra distinct: *Eclairer*, a dark crimson with white margin; *Champs d'Elysee*, a very fine rich dark crimson; *Aquillon*, salmon with crimson eye; *Moliere*, salmon rose, deep rose eye; *Pantheon*, deep salmon rose; *Beranger*, white with red eye; *Eugene Danzanviller*, lilac edged with white; *Bridesmaid*, pure white with crimson center; *Semiramis*, magenta; *Professor Schlieman*, salmon with red eye. Those who remember the fine Dreer displays made at the Buffalo and St. Louis expositions of this plant need not be told how splendid a thing it is for summer bedding, and this fact is being more and more recognized by the general public. These phloxes succeed in almost any kind of soil, are perfectly hardy, improve from year to year, and are in bloom from early summer to late in the fall.

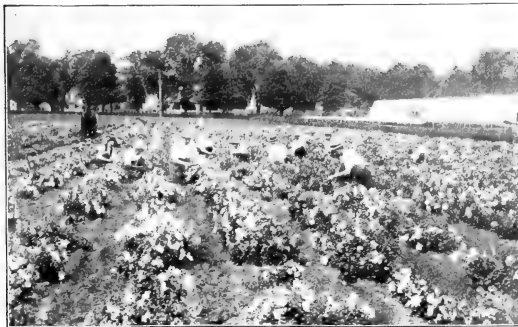
Among the newer cannas not mentioned in our recent article on the canna (see issue of Aug. 12) we noted as specially fine here: Dr. Robert

Funcke, a bright red, with very large flowers; a grand free blooming sort, not very tall, green foliage, erect habit. *President Meyer*, light carmine with immense trusses of flowers, up front among the reds with bronze foliage; *Miss Berthine Brunner*, pure yellow slightly sprinkled with scarlet, a large well-opened flower; *Rubin*, dwarf, ruby crimson, might be called a dark leaved *Duke of Marlborough*, the flowers not extra large but are very freely produced; *West Virginia*, scarlet with yellow margin identical with *Souvenir d'Antoine Crozy*, but more uniform and a better grower. Mr. Elsele still sticks to *Egandale* and *Alphonse Bouvier*, but in our opinion these are both surpassed in their class now by *Brandywine* and *Pillar of Fire*. But exigencies of the trade sometimes call for the keeping of varieties longer than seems necessary to the casual observer. Taking it altogether the Dreer collection of cannas is excellent and contains the cream of the many hundreds of varieties now in commerce.

We noted a nice lot of young plants of *Abelia rupestris grandiflora*. We recall a fine specimen of this six feet in diameter and about the same in height at the Botanic Gardens in Washington. It is covered with terminal trusses of pure white bell-shaped flowers slightly fragrant. Mr. Clark, the assistant superintendent, assured us that it was perfectly hardy, bloomed all summer and that its fine, bright, clean foliage looked well even in winter. He also told us that Mr. Smith should be credited with taking it out of the category of greenhouse plants. Jno. Saul catalogued it first and made money out of it forty years ago. It should be better known and is worthy of being pushed prominently by our catalogue men.

Queen Alexandra, the double Paris Daisy introduced this season, is rather attractive, not unlike an anemone-flowered chysanthemum, but only comes about 50 per cent. double. We think there is a future before it.

G. C. W.



SAVING PETUNIA SEED.

HORTICULTURE

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FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

That
blue rose

A correspondent in The Journal of Horticulture says, "I am still hoping, but hopelessly, to see a blue rose." Why hoping?

We have heard American rosarians express a similar longing and confess we never could reconcile it with the good taste these gentlemen were assumed to possess. The blue rose belongs in the same class as the four-legged chicken or other *lusus naturæ* of the circus side-show. Take it away.

The zest
of discovery

The story of the rediscovery of *Cypripedium Fairieanum* has quite a touch of romance in its make-up. The horticultural world is to be congratulated on

such achievements but we feel almost glad that the fierce tribes and dangerous reptiles still stand guard over a portion of the earth's surface. The novelty and satisfaction of acquiring these new and rare things will depart forever when shorn of the elements of privation and danger. It will be a weary day for humanity when it realizes that there is nothing on the earth out of reach, nothing left to be discovered.

About
nomenclature

The query "Should this Society countenance the substitution of popular appellations for cumbersome and often unpronounceable foreign names of new plant introductions?" which emerged from the "question box" at the recent convention in Washington received rather superficial handling, considering its importance. If influential members have convictions on the problem of accurate nomenclature, of which the above question covers only a small part, they have not yet expressed them in any but a very general way. Yet the time must come when not only the Society of American Florists but other organizations will be called upon to unite on some central authority that shall be the recognized oracle, whose rulings on the nomenclature of plants shall be universally accepted.

Packing flowers
for market

That growers of flowers for the wholesale markets in the large centres have yet much to learn regarding the handling and packing of

their product is apparent to everyone who has opportunity to see goods unpacked as they come in to the

commission houses. There are occasional exceptions, of course, and it may be said without fear of contradiction that these exceptions are invariably the concerns whose goods are widely noted for their quality and the high prices they realize all the year round. Probably no one influence has contributed so much to the downfall of the big shipping trade formerly enjoyed by certain cities and the consequent prosperity of fakirs and wrecking of values, than this thing. It would be time profitably spent if nine out of every ten cut flower growers would take a few lessons from the tenth man in the art of flower packing and shipping.

Orchids
a necessity

We have taken occasion heretofore to refer to the advantage to the florist having greenhouses of growing a few orchids. The demand for their rich blossoms is spreading and is no longer confined to the few aristocratic buyers of the larger cities. Orchids require very little care and practically no room, their presence in an ordinary plant house rarely interfering with other material that may be under cultivation there. Cattleyas may now be had in bloom throughout the greater part of the year by selecting from the many types obtainable from the importing firms at prices within the reach of all. The use of a few blooming plants or a few blossoms of these gems will at once raise a piece of decorative work from the ordinary to distinction and will help to develop a regular demand which can ordinarily be supplied by purchase from wholesale houses which make a specialty of orchids. There is no better way of obtaining and holding the lead over your over-conservative and unprogressive competitor than the course above suggested.

Advancement of the
private gardener.

The rapid multiplication of fine private conservatories which has been going on in recent years has made an opening for the expert gardener such as he has never been favored with hitherto in this country. To fill acceptably the position of head gardener today it is required of a man that he be something more than an adept at all-round out-door jobbing. There was a time when but few private estates required any deeper knowledge. A thorough acquaintance with indoor operations in the handling of conservatory plants of wide variety, the production of flowers that will stand the test of comparison with the standards set by the commercial specialists, the forcing of fine fruits and vegetables, must now be added to a long list of out-door accomplishments which are not acquired except through years of experience and study joined to a natural aptitude and fondness for the work. When we add to all this the needed qualification of ability to organize and direct workmen, and properly record it all we have an official for whom the usual salary paid for such service seems ridiculously inadequate. The demand for such men will in time be met but the price must be paid.

AFTER ADJOURNMENT.

The Boston Advertiser thinks it is now in order for Luther Burbank to undertake to improve the political plum but sees more than usual difficulties in the way because in horticulture the grafting process precedes the producing of the plum.

The Agricultural Girl.

A visitor to Lady Warwick's secondary agricultural school says that the agricultural girl is not a "stout daughter of the plough"—she is young, small, and gigglish. Some of the scholars received prizes in mathematics, cookery, and French, and the one who was first in the latter was described by a correspondent of "Truth" as "all lace and roses, cream white, and plumpness." Another pupil was in pale blue, and open-work white stockings.—*Journal of Horticulture.*

The agricultural girl on this side of the water is different—quite different. She wears a thick apron and heavy boots. We've seen her and we doff our hat to her.

GOOD BYE, GRAFT.

A conspicuous act of the last New York Legislature which took effect Sept. 1 is that directed against the practice of corrupting purchasing agents.

This law makes it a misdemeanor punishable by a fine of \$10 to \$500 or by both the fine and a year's imprisonment to give, offer or promise an agent, employee or servant any gift or gratuity whatever, without the knowledge or consent of the principal, employer or master of such agent, employee or servant, with intent to influence his action in relation to his principal's, employer's or master's business. The penalty also applies to agents who request or accept gifts or commissions for this purpose.

ORCHID AND ORCHIS.

Editor Horticulture:—Will you please tell me in your column what is the exact difference between an orchis and an orchid?

Yours truly,

H. P. A.

Any plant belonging to the large botanical order, Orchidaceae, may properly be called an orchid. There are upwards of 335 genera and 5000 species included in this great family. Orchis is one of these 335 genera, as are cypripedium, cattleya, etc., and comprises about 80 species, all terrestrial and mostly hardy.

PERSONALS.

Robert Patterson has been appointed gardener at Mrs. Richard Gambrell's Newport estate.

Visitors in Newport: Frank E. Conine, Stratford, Conn., S. G. Harris, Tarrytown, N. Y.

Charles M. Loring and W. F. Decker of the Minneapolis parks, are traveling in the East inspecting the more notable park systems.

We are glad to say that W. J. Dana of Wellesley Hills, Mass., who has been suffering severely for the past five months with an eye trouble, is rapidly improving and will not lose his eyesight, as was feared.

ARRIVAL OF CYPRIPEDEUM FAIRIEANUM AT ST. ALBANS, ENGLAND.



For nearly half a century, collectors have failed in their repeated efforts to reintroduce this much-coveted gem, and for several years Messrs. Sander & sons have had a standing advertisement in the Indian papers offering \$5000 for an importation.

In the early part of the present year, two or three plants sent to Kew Gardens from the Eastern Himalayas as an "unknown species" were at once recognized as the long-lost C. Fairieanum.

The photograph shows the unpacking of a very small consignment by Mr. F. Sander, Jr., and one of the foremen, received by parcels post via Calcutta. It was rediscovered by a reputable



English army officer while surveying in Bhutan, where he found it growing very sparingly, in a country where the hill tribes are so ferocious that collectors could not penetrate that region; hence it is not surprising that its reintroduction has not occurred before.

The late I. Forsterman, who collected in India many years and rediscovered Cypripedium Spicerianum for the same firm, gathered considerable knowledge of its locality during his stay there, but ill health compelled him to abandon collecting and he returned to England, and finally to the United States, and while there prevailed upon Messrs. Sander to send men direct from New York to India, giving them all the information he possessed to enable them to secure the plants, but they (like many others sent from Europe) were unable to penetrate the country where tribes of such a character existed.

Its arrival gives us again very valuable material for the development of new hybrids. All those obtained from the original plants are most distinct and beautiful, some of the finest having

been raised at North Easton, Mass., and Short Hills, N. J.

The plants recently received are now growing freely and have spikes twelve inches long with buds, which were showing upon arrival, and have grown rapidly in heat, and ere these lines appear, its flowering in England will have occurred.

EXOTICS IN OUTDOOR DECORATION.

It is no easy task to successfully harmonize groups of large palms with the more permanent surroundings of any country place of moderate extent, especially in Newport, where frequent wind storms are a menace, nevertheless, on the estate of Mrs. William Astor are latanias and other palms of enormous size, placed in such locations and arranged in groups or singly, with such skill by Mr. Boyd that the effect is one of tropical grandeur. Here and there is seen a huge Pandanus utilis, toned down with cleverly executed fringes of more graceful material.

IMPROVING WASTE LAND.

Thomas H. Kearney, of the Bureau of Plant Industry, is in San Francisco. His mission is to decide what plants are best suited for cultivation on the lands which have been reclaimed by the Government. Much of this land is salty and Mr. Kearney will make a report for the benefit of future cultivators. He had made this subject a careful study for many years and has been sent by this Government to Tunis, Algiers and Egypt to make an examination of the plant life in alkali-infected spots.

WHAT THEY SAY OF US.

Please stop my ad. I have only a very small quantity of sweet peas left. I am very much satisfied with Horticulture. It pays to advertise in it.—A. C. Zvolanek.

OBITUARY.

Prof. E. A. Apgar died at his home, East Orange, N. J., August 28. He is best known through his interesting contributions on the botany of the wild flowers, written in a popular vein and disseminated through the daily press.

William Copley, an old-time florist of Brooklyn, passed away at his home, 69 Floyd street, on August 29, at the advanced age of eighty-five years. He came here from Ireland in 1847, a well-trained florist, and carried on business in Brooklyn until twenty years ago, when he retired.

Charles H. Craver, seedsman, died suddenly at Binghamton, N. Y., on August 25. Mr. Craver was formerly of the firm of George Craver & Sons. Upon the death of the other members of that firm he started business in a new location, where he has been ever since and had built up a good trade.

A large shipment of orchids has been received at Newport from Lager & Hurrell by James Bond, gardener for Mrs. Brooks.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

NEWS OF THE CLUBS AND SOCIETIES

BUFFALO FLORISTS' CLUB.

The annual outing of the Buffalo Florists' Club, which was held at the Bedell House, Grand Island on Aug. 29, was a most decided success. The day was an ideal one, thanks to the weather man. The program consisted of many events, which began soon upon arrival. The ball game between the East side and West side boys was won by the East side with a score of 12 to 9. John Kramer, Long Greever, Longley, Kull, William Scott, Jr., Brucker, D. Scott, Warring Anderson, Cloudley, Keitsch and Humphrey all made their marks and sensational plays were made by Walter, Speidel, Schnell and Gilles. Rumor had it that the umpire was an East sider, which helped to win the game.

Charles Keitsch, the able manager and announcer, had during the ball game secured many entries for the best event on the program, the "ladies race." There were many entries, and many valuable prizes were awarded. The winners were Miss Lucy Schlager, first; Miss Ruby Mark, second; Miss Lily Neidenreich, third. Also ran, Mrs. Fred Walters.

The one-half mile special handicap running race between E. B. Kull and Albert Reichert, was exciting; odds 5 to 3 on Kull, which was won by a close decision by Reichert. Time, 1.28. Palmer's special standing broad jump was next, with six entries in the event. William Greever, the Y. M. C. A. champion, won easily. Three trials were had. Measurements:

Greever, 7 ft. 6 in.; 8 ft. 6 in.; 7 ft. 9 in.

Edward Slattery, 7 ft. 3 in.; 7 ft. 9 in.; 7 ft. 8-1/2 in.

Ed. Walther, 7 ft. 5-1/2 in.; 7 ft. 9 in.; 7 ft. 7-1/2 in.

The leap frog race was very interesting and amusing. A good lineup of twelve entries were had for this great event, and it was won in an exciting finish by John Kramer and Charles Keitsch, first; William Greever and Ed. Walther, second; David Scott and Charles Reichert, third. It may be said that the first two competitors ran a dead heat, but the judges decided as above.

Event No. 5, the old men's race, handicap, was also an amusing event; ages 40 to 60, with eight entries, was easily won by George McClure. Then Vennaman, second; William Ehmann, third. Also ran, C. Forback, J. Weigl and J. Shaw.

The sixth event, 100 yards open handicap, lined up fourteen well-trained runners. J. Longley was a winner by a nose, with Albert Reichert a close second and John Kramer, third. Keen interest was taken in the boys' race, and at the lineup there was a good bunch of youngsters, who ran much faster at this time than when out delivering goods at quick calls. Winners: First, Henry Kempker; second, Reinhard Klockow; third, Gerald Anderson; fourth, Peter Stroh.

Broad running jump, twelve entries, was one of the best of athletic events. David Scott, first, space covered, 16 ft. 5 in.; 16 ft. 9 in. William Greever, second, 15 ft. 6 in.; 14 ft. 10 in.

The one-quarter mile open handicap was won by Carl Humphrey, first;

Reichert, second and Longley, third, the winner having 60 yards handicap. It is sometimes hard for some to run with two legs, but as this was the three-legged race, it certainly was worth seeing, the distance being 75 yards. Greever and Walther fell across the line winners, with Reichert and Longley second, and Humphrey and Slattery third.

Refreshments were served on the grounds, and George McClure was constantly on the lookout for the benefit of the fair sex.

The dinner hour found 106 seated, all tired after enjoying the afternoon program, and somewhat famished. At the head of the table, W. F. Kasting was master of ceremonies. A speech was made by the president and William Scott, and at the close the prizes were distributed to the lucky winners, after which the ladies had a grand hayrack ride around the island. The day's sport was ended with dancing in the grand hall.

The committee is to be congratulated for making this the best attended and most enjoyable outing in the history of the club.

TARRYTOWN HORTICULTURAL SOCIETY.

A well-attended meeting of the above society was held on Tuesday evening, Aug. 29. Three new members were elected and two names proposed for membership. The monthly prize donated by James Ballantyne for the best collection of out-door flowers was won by William Scott, the collection comprising about sixty varieties. The F. R. Pierson Co. exhibited a splendid collection of phloxes, for which a certificate of merit was awarded. John Featherstone received honorable mention for a display of asters, and William Scott a similar award for peaches, the variety being Sea Eagle. Mr. Scott read an essay on fern culture, which brought out a lively discussion in which Joseph Mooney, A. T. Bodington and others took part.

WILLIAM SCOTT,
Corresponding Secy.

NEWPORT HORTICULTURAL SOCIETY.

The annual autumn exhibition of September 11, 12 and 13, to be held in the Casino, is confidently expected to be fully up to the standard of former years. Entries from local exhibitors promise to be quite numerous, while many inquiries regarding space are coming in from out-of-town dealers and growers. Readers of this edition of Horticulture who have anything to show should come, and bring, if possible, something to show us. They may start with the assurance of seeing a pretty good show and of getting good treatment from the boys.

HORTICULTURAL SOCIETY OF CHICAGO.

The preliminary list of premiums for the annual exhibition next November, has been issued and copies may be had on application to E. A. Kanst, assistant secretary, 5700 Cottage Grove Avenue, Chicago. The list is very comprehensive and should help to bring out a large and popular display.

FLORISTS' CLUB OF PHILADELPHIA.

The L. K. Peacock Co. made an exhibition of dahlias at the monthly meeting of the Florists' Club of Philadelphia on the 5th inst. Kriemhilde, a cactus variety, pink with white center, attracted much favorable attention. Gracie, a lovely single pink was also a feature. In all about fifty vases of the standard varieties were shown and their merits were gone over in detail by Mr. Peacock who received the thanks of the club. The club will go in a body to visit the 130 acres of Peacock dahlias at Atco, N. J., on Sept. 16th.

The plan is to leave foot of Market street at 1 P. M.; returning, leave Atco 5.13; stopover privilege at Haddonfield American Dahlia Society's 11th annual show on return journey, for all who desire. Members and their friends are invited. Only exp. 72c. return ticket.

An interesting exhibit of cannas at same meeting came from the Conard & Jones Co. Unfortunately Mr. Wintzer could not be present to give his expected talk on the convention and on his favorite flower. But there was another West Grove man present, Mr. P. J. Lynch, and he is a host in himself at entertaining. The prizes won at the convention were presented to the club and a pleasant social hour was spent. Edward A. Stroud and P. J. Lynch were the star performers in the song and story line. When the prize cup had been filled and passed a few times the enthusiasm became quite pronounced.

Resolutions thanking the Washington and Baltimore brethren for their many courtesies during the recent convention were passed unanimously.

NATIONAL NUT-GROWERS' ASSOCIATION.

In view of the presence of yellow fever in portions of our territory and the consequent restrictions on travel, it is deemed expedient to postpone the 1905 convention of the National Nut-Growers' Association, to be held at Dallas, Texas, to a later date than Oct. 25-27.

It is conceded that a better exhibition of nuts can be made in November or December, and that the testing and grading of new varieties—which is not practicable in October—can be made a part of the convention work if the meeting is held at a time when the nuts are mature. Members and all interested are invited to correspond with the Secretary, giving their views as to the best time, all things considered, for our 1905 gathering. Due announcement will be made as soon as the time is fixed. The Dallas convention can hardly fail to be of much interest and benefit, and all who can should arrange to be present.

We are able to report that the difficulties and delays in publishing the proceedings of the St. Louis convention, caused by the death of Mr. Barnett, the convention reporter, have been so far overcome that that valuable volume will soon be ready.

J. F. WILSON, Secy.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual exhibition of plants, flowers, fruits and vegetables of the Massachusetts Horticultural Society will open at Horticultural Hall, 300 Massachusetts Ave., on Thursday, September 14, at 12 o'clock noon.

The various committees are actively at work with the intention of surpassing if possible any previous September exhibition of the Society.

The schedule enumerates 475 prizes in the different classes, amounting in value to \$1,415.00. Of this amount \$618.00 is offered for plants and flowers, \$552.00 for fruits, and \$245.00 for vegetables. It is safe to say that no other horticultural society in the country can present such an attractive list of awards, nor is able to attract such magnificent competition.

Prominent features will be the displays of tropical foliage plants from the best greenhouses in the vicinity of Boston and also from those of other states. The Boston Park Department will send an attractive collection of berry-bearing hardy shrubs, the Messrs. Farquhar a fine exhibit of their new Christmas lily, and the Com. Morton F. Plant estate at Groton, Conn., an extensive collection of hot-house grapes and other fruits and vegetables.

The Harvard Botanic Garden will present the choicest products of its houses and the Blue Hill Nurseries a large display of seasonable flowering plants.

Dahlias, China asters, and native plants will also be in abundant supply.

In addition to the floral display, this is the great fruit and vegetable show of the year, and the interest in these classes is expected to be fully up to the high standard of past years.

The exhibition will continue from Thursday to Sunday; after the first day the halls will be open from 10 A. M. until 10 P. M.

WM. P. RICH, Secretary.

Boston, September 7, 1905.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Mr. John N. May offers two prizes, \$15.00 and \$10.00 for best 12 flowers in four varieties, three of each, not less than 30 inch stems. No artificial supports. Open to private gardeners only.

FRED H. LEMON, Secretary.

NEW JERSEY FLORICULTURAL SOCIETY.

At the September meeting of this Society there was a fine floral display, including orchids from the collection of William Barr, of Llewellyn Park, among which was *Cypripedium Barri*, a seedling raised by Mr. Barr; also *Oncidium papilio*, grown by Arthur Bodwell; dahlias from Stewart Harts-horne; phlox from the Colgates; vegetables from John Crosby Brown, including egg plants of enormous size.

Douglas Robinson sent a collection of vegetables, lilies and roses. Schedules of the exhibition of November 6 and 7 were distributed and the committee were given power to secure the new hall of the W. C. T. U., now building in East Orange, and expected to be ready by that time. The October

meeting will have the feature of a special dahlia display.

The paper of the evening was delivered by Anthony I. Mauda, gardener for Charles Pratt, Brooklyn, N. Y., upon "Stove Ornamental Foliage Plants," and was so well appreciated as to receive in addition to the usual vote of thanks, a request for a copy for publication in the Society's transactions.

JOSEPH B. DAVIS.

NOTES.

The Association of American Cemetery Superintendents meets on September 19-22 at Washington, D. C.

The annual autumn exhibition of the Newport Horticultural Society is set for September 11, 12 and 13, at the Newport Casino.

The Springfield (Mass.) Amateur Horticultural Society will hold a dahlia exhibition in Masonic Hall on September 19 and 20.

The preliminary list of premiums for the St. Louis Flower Show, to be given November 7-10, under the auspices of the St. Louis Florists' Club, has just been issued. The list includes the very substantial Shaw premiums offered by permission of the trustees of the Missouri Botanical Garden amounting to about \$500. Chrysanthemum plants and blooms, roses and carnations are well provided for in the regular list. Very tempting prizes are offered for table decorations, baskets, bouquets and other floral design work; competition open to all. Copies of the list and all information may be had on application to Otto G. Koenig, Manager, 6471 Florissant avenue, St. Louis, Mo.

NEW BEDFORD AND HER COMMON.

The city of New Bedford, Mass., after several years of spending money with a lavish hand, finds herself financially beyond her depths. The good fathers who sit beneath the gilded dome have decided that a severe dose of retrenchment is the only cure for the malady; and as a consequence public work is to a certain extent suspended. In the public parks the farm mowing machine has superseded the lawn mower, and the entire aspect is one of "gone to seed." The common, which, under the care of William Smith, has for a decade been the pride of the citizens, is left to the sole care of its keeper, who devotes his whole time to keeping the walks free from litter; the formerly well kept lawns are covered with a crop of dying grass or hay; the low wire guards placed to protect the bedding plants from the inroads of the dogs, stand guard over a crop of weeds. The condition of the common is deplorable; even Bruno, the mascot of the common, moves about with a dejected air. What a tale that dog could unfold did he but know where to find it, but when, a "Weary Willie," he landed at the common a few years ago, he had, like the returned sheep of Little Bo Peep, left his tail behind him.

When the tide has turned and the city of New Bedford has recovered her equilibrium the park commissioners may have learned that a pleasing and economical effect may be obtained by means of well-kept lawns and judiciously planted shrubs.

THOMAS WHITE.

SAN FRANCISCO NOTES.

The old store site of Albert Pouyal, 1149 Polk street, whose disastrous failure was recently reported, is being fitted up with much elegance preparatory for the reception of "The Blocks," whose tasty flower store has heretofore been in the 1000 Block, Sutter street. And on the opposite corner of this new site of "The Blocks," Polk and Sutter streets, "Shibley, the Florist," is locating. For twenty years or more Shibley has been one of the downtown florists. F. A. Jaccard & Co., who are located a few doors from Polk street, on Sutter, is opening a branch store on Fillmore street.

From the viewpoint of florists, the most notable funeral of all the year occurred this week in Oakland. The deceased was a city official of Oakland, whom everybody knew and respected. The florists over there were taxed to the utmost; in fact, twelve florists from this side of the bay were sent over to help them out.

It may be interesting to readers of Horticulture to know the kind of floral work the California florists are called upon to produce. Some of the tokens sent on the occasion were as follows:

A broken column of sweet peas; broken wheel of sweet peas and carnations; Gates Ajaz of sweet peas and carnations; scroll, "Asleep," of asters and sweet peas; star and crescent of sweet peas and carnations; wreath of white roses; anchor of sweet peas; sheaf of wheat; heart of sweet peas; spray of asters; broken wheel of sweet peas and carnations; wreath of autumn leaves and roses; spray of white roses; cross of sweet peas; spray of asters; pillow of white asters and sweet peas; spray of pink carnations; spray of white corn flower; spray of white carnations; wreath of asters and sweet peas; spray of lilies; spray of sweet peas. These were all made up with a profusion of adiantum.

PHILADELPHIA NEWS NOTES.

Stephen D. Green has secured a position with H. Bayersdorfer & Co. and will represent that house on the road. He is well known in the trade, having traveled for nearly four years for another florists' supply house. He is popular and enterprising. Messrs. Bayersdorfer & Co. are to be congratulated in always knowing and getting the cream in men as well as goods.

An unfortunate slip of the pen gave Mr. McKissick's number as 1614 last week; 1221 Filbert street is the correct address. Before the store had been open an hour on Monday morning (the opening day), dozens of 'phone orders had come in, some of them long distance, and Mr. McKissick met Horticulture's representative with the cheerfulness of cheerful smiles, notwithstanding that slip about the number.

BUSINESS CHANGES.

A. J. Guttman, wholesale cut flower dealer, has removed from the store he has occupied for several years at 62 West 29th street, to 43 West 28th street, New York City, where he will have abundant room and facilities.

Field & Sinclair have leased the Howland greenhouses at Holyoke, Mass. Mr. Sinclair was Mr. Howland's manager for many years.

Promoting Horticulture and Civic Improvement Among Children.

A Lecture by Miss Susan B. Sipe before the Society of American Florists.—Continued from page 277.

There are now thousands of young gardeners at work looking forward to the flower show in the fall, who have been immensely benefited by the instructions given in the schools and who will never forget the fondness for the soil and who will make better citizens in the future for it. The children have learned that it takes labor to produce; that one's property should be respected and protected so that neighborhoods which formerly suffered much from vandalism simply for destruction have had immunity from such for two years. Skillful teachers have been able to relate the garden work with the schoolroom work, obtaining from it material for lessons in nature study, English composition, spelling, drawing and arithmetic. However, where there is sufficient space, the garden of individual plots, the one where each child has a small space wholly his own is better adapted for correlation of the outdoor work and the indoor work. Again, through the Department of Agriculture, has the Normal School been granted this privilege. Seven thousand square feet of ground adjoining the main building have been set aside for the use of the school and here the students get the opportunity to handle outdoor classes, which is such a necessity in a teacher's training. A class of sixth grade boys from a school in the neighborhood was selected. Once a week, while the girls of the school are at cutting and fitting school, the boys report at the Normal School greenhouse for lessons. Elementary work in soils and seed planting are given before they are put upon the land. When the ground is in condition to work, it is measured and laid off by them into plots 9 feet by 20 feet, paths two feet wide separating the plots. On these each boy raises during the season eight kinds of vegetables and two kinds of flowers. Whatever he raises is his own and it is of sufficient value to pay him to work two mornings a week throughout vacation. The quantity of vegetables grown or the quality of them is not the main thought in the mind of the teacher, but the development of the boy is the paramount thought. He is the most important factor of growth in the garden. To aid him in his geography, plots of the common grains and fibre plants of the United States border the garden. As these mature lessons on their industrial and commercial relations to man are given, the freedom of speech engendered gives much opportunity to promote the use of correct English. Problems in practical arithmetic are continually arising. These boys have calculated the amount and the cost of fertilizer needed, the cost of the garden and of each individual plot, the amount of time needed on a plot at a given amount per acre, the quantity of rainfall, the cost of fencing. The believing teacher finds constant opportunity to relate the schoolroom studies in a practical way to the outdoor work. The physical development of the boy is a great point in the favor of gardening as a part of the public school system. There is no form of manual training so far used in our



schools that so helps the physical and intellectual development of children. It is sincerely hoped that congress will see fit to make appropriations this coming session so that other portions of the city may benefit by this object lesson on the Department grounds.

The influence on the homes of the children should appeal to those not interested in it from the educational point of view. Whatever tends toward strengthening the home tends toward better citizenship and a stronger nation.

The recognition by a department of government of the movement to implant a love for the soil in the minds of a child while it is yet plastic, has strengthened the movement in other cities where it had been labelled "fad." Representatives from the governments of Canada, Great Britain, France and New Zealand have studied the work and returned to their respective countries stimulated to further the movement there. Children's gardens are widespread in this country, being furthered by settlement workers, business firms, private enterprise, educational boards. "A school without a garden is like a stag without water," says a noted educator. The Bureau of Education claims that the idea is so simple and so natural that the coming century will wonder how educational institutions could have existed without them and been true to their purpose.

NEWS NOTES.

The Burnham, Hitchings, Pierson Company are making repairs on the greenhouses at Rockhurst, Newport.

Alexander Klokner of Wauwatosa, Wis., was allowed a patent on his repair clamp for greenhouse roofs on August 29, the application having been filed May 11. This little device should be kept in stock by everybody having greenhouses or sash frames. It will be found mighty useful.

PEACH PITS

CROP 1904

We still have a few hundred bushels on hand. They will crack 90 to 95 per cent, good. You had better order now and be on the safe side. Experience has taught us that Peach Pits one year old are better than the new crop.

Samples and prices on application. State quantity wanted.

We also have a fine lot of Apple, Peach, Plum, Cherry, California Privet, Asparagus, Shade and Ornamental Trees, Shrubs, &c.

Send us your Want List

FRANKLIN DAVIS NURSERY CO.
BALTIMORE, MD.

CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet, well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
HIGHTSTOWN, - N. J.

Daisies, Daises and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.

FLETCHER of ALBURNDALE.
Stall 1, Boston Flower Market, Park St.

Field-grown VIOLETS Clumps Strong

3000 L. H. Campbell, \$2.00 per 100; \$45.00 per 1000; 2000 Princess of Wales, \$6.00 per 100; \$60.00 per 1000. There is no better stock in the market at any price.

Cash with order, please.

R. ENGELMANN & SON, Pittsfield, Mass.
STERILIZED SHEEP MANURE

\$20.00 a TON
100 Lb BAG \$1.25

WM. ELLIOTT & SONS

201 FULTON ST., NEW YORK

FOR SALE CHEAP

Collection of

ORCHIDS

130 Plants

ONCIDIUMS DENDROBIUMS
CATTLEYS LAELIAS
AND CYPRIPEDIUMS.

Plants in fine condition, many showing flower. List on application

PRICE \$75.00

G. HANSON

1025 S. Cameron St., HARRISBURG, PA.
Telephone Connection

CATTLEYA SCHROEDERAE

THE EASTER CATTLEYA

We take pleasure in announcing to our customers the arrival of the above superb Cattleya in perfect condition. Also Cattleya Trianae, C. labiate, C. Warneri, C. gigas, C. granulosa, C. Moreana, Burlingtona fragrans, Laelia anceps and L. autumnalis atro-rubens. Write for prices.

LAGER & HURRELL

Orchid Growers and Importers SUMMIT, N. J.
In writing advertisers, mention Horticulture

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Sander, St. Albans, England

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Palms, Ferns And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres
Also, Araucarias, Rubbers, Pandanus, Aralias
Dracaenas, Aspidistras, Marantas, Crotons
etc., etc.

WHOLESALE PRICE LIST ON APPLICATION

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PERKINS STREET NURSERIES

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In writing advertisers, mention Horticulture

It is never too early nor too late
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Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

NEPHROLEPIS BARROWSII, \$25 PER 100

SCOTTII, 2½ in., . . . 5 " "

BOSTONS, 2½ in., . . . 3 " "

HENRY H. BARROWS & SON,
Florists, Whitman, Mass.

Dreer Special Offer of Seasonable Stock

Araucaria Excelsa

6 in. pots.	12 to 14 in. high.	3 to 4 tiers.	\$.75 each.
6 " "	15 to 18 " "	4 " "	1.00 " "
7 " "	18 to 20 " "	4 " "	1.25 " "
7 " "	24 to 30 " "	5 " "	1.50 " "

The above are the best values we have ever sent out, especially the size at \$1.50 each.

Araucaria Excelsa Clauca

6 in. pots.	13 to 15 in. high.	3 tiers.	\$1.25 each.
7 " "	18 to 20 " "	4 " "	1.75 " "
7 " "	20 to 24 " "	4 to 5 " "	2.00 " "

Araucaria Robusta Compacta

6 in. pots.	10 to 12 in. high.	2 to 3 tiers.	\$1.25 each.
6 " "	12 to 14 " "	3 " "	1.50 " "
7 " "	16 to 18 " "	3 to 4 " "	2.00 " "

Asparagus Sprengeri

2 1/4 in. pots.	\$.50 per doz.	\$4.00 per 100.
3 " "	.75 " "	5.00 " "
4 " "	1.25 " "	10.00 " "
8 " pans.	6.00 " "	

Asparagus Plumosus Nanus

2 1/4 in. pots.	.60 " "	4.00 " "
3 " "	.75 " "	6.00 " "

Asparagus Tenuissimus

3 " "	.75 " "	6.00 " "
4 " "	1.25 " "	10.00 " "

Begonia Cloire de Lorraine

3 " "	2.00 " "	15.00 " "
4 " "	4.50 " "	35.00 " "

Begonia Light Pink Lorraine

3 " "	2.00 " "	15.00 " "
4 " "	4.50 " "	35.00 " "

Chrysanthemum Alexandra

The New Paris Daisy

3 " "	1.25 " "	10.00 " "
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Dracaena Fragrans

4 " "	2.50 " "	20.00 " "
5 " "	4.00 " "	30.00 " "
6 " "	6.00 " "	50.00 " "

		Per Doz.	Per 100.
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Dracena Massangeana	5 in. pots.	\$9.00	
" Lindenii	5 " "		
" Terminalis	2 1/4 " "	1.00	\$8.00
Farfugium Grande	4 " "	2.00	15.00
Ficus Elastica	4 " "	3.00	25.00
" "	6 " "	6.00	50.00
Nephrolepis Scottii	2 1/4 " "	.75	6.00
" "	3 " "	1.50	10.00
" "	4 " "	3.50	25.00
" "	5 " "	6.00	50.00
" "	6 " "	9.00	75.00
" "	8 " "	15.00	
" "	10 " "	18.00	
" Barrowsii	3 " "	3.50	25.00
" Piersoni	2 1/4 " "	.75	5.00
" " Elegantissima	2 1/4 " "	3.00	25.00
" "	4 " "	6.00	50.00

	Per 100.	Per 1000.
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Adiantum Cuneatum	2 1/4 " "	\$3.00	\$25.00
" "	3 " "	6.00	50.00
Alsophilla Australis	2 1/4 " "	8.00	
" "	3 " "	10.00	
Ferns in mixture for dishes	2 1/4 " "	3.00	25.00
" " " " "	3 " "	6.00	50.00

	Per Doz.	Per 1000.
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Pandanus Veitchii, fine plants	6 " "	\$12.00	
Petunias, Dreer's Double	3 " "	1.25	10.00

For a complete list of Seasonable Stock, including Ferns, Palms, Decorative Plants, Hardy Perennials, Hardy Shrubs, Bulbs, Seeds, etc., see our New Wholesale Price List issued September 1st.

HENRY A. DREER

714 Chestnut Street, Philadelphia, Pa.

Flower Market Reports.

BOSTON No sign of general trade revival has, thus far, crossed our vision in this town. There is an abundance of all the requisites in cut flower supply, but the demand is impalpable. American Beauty roses are more abundant than heretofore and a good percentage are forced at a reduced value to unload. Queen of Edgeley is in the same class. A large proportion of the tea roses are disposed of at figures ranging between 20 cents and a dollar and a half per hundred. Carnations are few and, as to quality, could not be worse than at present. Not many are wanted, and when they must be had the cost is usually far beyond the intrinsic value of the goods.

For the last two weeks **BUFFALO** sales were not so flourishing, although a good deal of stock was moved, asters gladioli and roses being about the most plentiful. Roses are somewhat of a drag, select white stock selling fairly well, however. Too many asters of poor quality flood the market at times and are hard to dispose of, while select blooms of the branching variety sell rapidly. The same may be said of gladioli, too many mixed colors. The rich pink and white are best sellers. Lilies of different varieties are abundant in supply and sales rather slow. Lily of the valley, fair demand, and green goods an over supply.

CHICAGO Brides and Kaisersins in short supply. Bridesmaids good color, but short stem. Liberty in shorts go well, but best grades still lacking. Select Beauties scarce; all lengths sell well. Asters and dahlias very plentiful. Smilax show. Harrisii and auratum lilies in short supply. Gladioli, quality ordinary except White Lady, which is handsome, and a ready seller.

CLEVELAND This has been an especially good year for asters, and they have been grown in profusion. They are dumped in the flower stores in almost carload lots; at that they have brought fairly good prices, ranging from 50 cents per 100 to \$3 per 100, according to quality and demand. There have been plenty of good gladioli and lots of old-fashioned garden flowers that are endeared to our hearts and pleasing to the eye, such as sweet sultan, scabiosa, salpiglossis and marigolds. Business is very quiet with the retailers.

The week past has been a very slow one in many respects. Carnations can be had in adequate quantities of good quality, and sell up to expectations. Roses are also of satisfactory quality, but the demand is light. Cosmos and dahlias are abundant.

NEW YORK Last week experienced a repetition of the dull conditions prevailing all through August and there is nothing in the present situation to indicate much improvement in the near future. Roses are being received at the wholesale marts in veritable avalanches, quality low but usually good enough for the class of buyers that are in evidence. All garden material, including dahlias and as-

ters of high degree, is badly congested. A big freeze is the only thing that can help the cut flower market. If it could be purchased, money would be no object.

The cut flower business **NEWPORT** still continues fairly good. The unseasonably wet weather of the past week blasted the hopes of those expecting a great deal from out-of-door material. A large decoration in prospect for this week will use up all the Allamandas in town. Good Beauties are coming from Jurgelins. Other varieties of roses are improving in appearance and advancing a little in price. Dahlias are selling fairly well, but at a price much less than last year. Carnations are beginning to show up, but there is not much call for them yet. Next week Newport will be in gala attire, and flowers in great abundance will be used for the decoration of the floats and arches.

Roses went slow the past week, and quality was only fair. Beauties and Kaisersins were the best and had the call on what business there was. Some good Golden Gates are now coming in, but very few Ivory. A slight improvement in the quality of Bridesmaid is noticeable. Carnations have been more plentiful. Asters are more plentiful than for five years back, and there is some grand stock coming in. Dahlias were a little bit soft the past week on account of the warm weather, but they will be in fine shape soon. The first gardenias of the season have made their appearance and are expected to be a steady crop from now on. There was quite a revival in business on Monday of this week, especially on out-of-town orders, and the trade may be said to have fairly awakened up at last. There are already signs of an unprecedented fall and winter business. The market generally shows a much brighter tone this week than last.

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" No. 1.....	3.00	to 5.00	3.00	to 5.00					
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" extra.....	1.00	to 2.00	1.00	to 2.00	Lily of the Valley.....	1.00	to 2.00	1.00	to 2.00
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" Ordinary.....	.25	to 1.00	.25	to 1.00	Smilax.....	5.00	to 8.00	5.00	to 8.00
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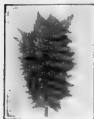
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" extra	to 10.00	to 10.00	4.00 to 5.00	to 3.00
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List of Advertisers

Page	Page
Baker Wm. J.230	McConnell Alex.254
Backer & Co.268	McKellar Charles W.230
Barrows H. H. & Son. ....239	McKistick, W. E. ....230
Bayersdorfer H. & Co. ....239	McNair Jas. ....232
Beas, Chas. ....278	Metropolitan Material Co. ....266
Black W. J. & Co. ....261	Mitchell E. F. ....279
Boddington A. T. ....268	Michigan Cut Flower Exchange. ....283
Bonnet Bros. ....283	Millard Charles. ....283
Boston Florist Letter Co. ....281	Milling Frank. ....282
Breck Joseph & Sons. ....270	Moninger J. C. ....287
Breitmeier's J. Sons. ....282	Mt. Hissarick Nurseries. ....274
Budlong J. A. ....283	Murdoch J. B. ....283
Burnham Hinchings Pierson Co. ....288	Niessen Leo. Co. ....268-280
Burpee W. A. & Co. ....270	
	Pennock L. K. ....279
Carmody J. D. ....287	Pennock Samuel. ....268-280
Chicago House Wrecking Co. ....268	Perkins John J. ....283
Clucas & Boddington. ....266	Pieron F. R. Co. ....268
Cooke C. H. ....284	Pittsburg Cut Flower Co. ....283
Coolidge Bros. ....269	Poehlmann Bros. Co. ....269
Cottage Gardens. ....269	Pye R. C. ....268
De Nij's Bros. ....266	Rawson W. W. & Co. ....290
Dilger Wm. ....269	Raynor John L. ....282
Durance, Ben. ....269	Reed & Keller. ....281
Dreer H. A. ....266-270-280	Reed & C. ....266
Dysart R. J. ....281	Reinberg Peter. ....280
	Robinson H. M. & Co. ....283
Elliott Wm. & Son. ....278	Roeber Julius. ....279
Engelmann R. & Son. ....276	Rolker August & Son. ....269
Ester J. G. ....287	
Ernest W. H. ....276	Sander & Son. ....279
	Schall Lumber Co. ....288
Farquhar R. & J. & Co. ....270	Scollay John A. ....287
Fletcher K. W. ....278	Scott John. ....279
Ford Bros. ....270	Sharg, Partridge & Co. ....288
Forest Nursery & Seed Co. ....269	Sheridan W. F. ....282
Franklin Davis Nursery Co. ....276	Siggers E. G. ....268
Fronow W. & Sons. ....269	Situations & Wants. ....286
	Skidelsky S. S. ....269
Gaecke August & Co. ....279	Stafford N. Co. ....281
Gormley W. ....282	Stearns A. T. Lumber Co. ....287
Grey T. J. & Co. ....270	Sutherland Geo. A. ....283
Gude A. & Bro. ....261	Suzuki & Inda. ....266
Gurney Heater Mfg. Co. ....287	Sylvester H. H. ....288
Gutman Alex. J. ....282	
	Thomas W. H. ....269
Hall Asso. ....287	Thornburn J. M. & Co. ....270
Hammond J. A. ....283	Treandry & Schenck. ....283
Hanson, G. ....279	Troy, J. H. ....269
Heller & Co. ....270	
Hews A. H. & Co. ....266	Vaughan and Sperry. ....280
Hill E. G. & Co. ....286	Vaughan's Seed Store. ....266
Hippard, E. ....287	
Hollis Geo. ....269	Walsh M. H. ....269
Holly Castle Co. ....268	Ward Ralph M. Co. ....270
Horan E. C. ....283	Ward H. H. Co. ....280
Hug Eng. Co. ....286	Weber F. C. ....261
Hunt E. H. ....260	Weber H. & Sons. ....268
	Wehr Bros. ....280
Kasting W. F. ....283	Wichers. ....280
Kerwan Co. ....283	Wietor Bros. ....280
Kilbourne, R. ....269	Winterich C. ....266
King Cons. Co. ....287	Winterson E. F. ....280
Kloknor A. ....261	
	Yalaha Conservatories. ....266
Lager & Hurrell. ....279	Young & Nugent. ....281
Lang Julius.283	Young Thos. Jr.282
Leubay A. & Co.279	
	Zvolanek Ant. C.270
McCarty N. F. & Co.283	

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.
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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

THOMSON'S MANURES.

R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Vase.280
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 432-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th & M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

You Need Not Go Outside

THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country.

FOLDING BOXES.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREEASIAS.

Rees & Compere, Long Beach, Cal.
For page see List of Advertisers.

GERBERA JAMESONI.

Chas. H. Totty, Madison, N. J.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings, Plerson Co.,
1133 Broadway, Newark.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.
For page see List of Advertisers.

HELP.

Thos. H. Bambrick, 34 S. 7th St.,
Philadelphia, Pa.

HEATING APPARATUS.

Burnham Hitchings, Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LADY CAMPBELL VIOLETS.

Strong, healthy field grown plants, free
from disease, packed to carry safely free
of charge. No. 1, \$2.50 per 100, \$20 per
1000; No. 2, nice plants, \$1.50 per 100,
\$10 per 1000, good and very cheap. Ad-
dress, Charles Black, Hightstown, N. J.

W. H. Thomas, Convent Sta., Morris
Co., N. J.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia.
For page see List of Advertisers.

LILY BULBS.

H. H. Berger & Co., 47 Barclay St.,
New York.

Ralph M. Ward & Co., 12 W. Broadway,
New York.

Bermuda Harlequin Bulbs.
For page see List of Advertisers.

A. T. Boddington, New York.
Cold Storage Lilies.
For page see List of Advertisers.

LILY BULBS.—Continued.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cleucus & Boddington Co., 131 W. 23rd St.,
New York.
For page see List of Advertisers.

H. F. Mitchell Co., Philadelphia.
Pure Culture Spawn.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co., New York.
For page see List of Advertisers.

Vaughan's Seed Store, Chicago and
New York.
For page see List of Advertisers.

NUKERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cutleya, Sciocedra.

For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.

O. A. Miller, 24 Clinton St., Newark, N. J.
Cypripedium Longifolium and Sedeni.

For page see List of Advertisers.

PAEONIES.

George Hoffa, S. Weymouth, Mass.
For page see List of Advertisers.

Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.
A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.

For page see List of Advertisers.

Puehlmann Bros. Co., Morton Grove, Ill.
Young Roses.

For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.

For page see List of Advertisers.

50 sorts fine young plants now ready.
The Leedle Floral Co., Springfield, Ohio.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

SEEDS.—Continued.

Joseph Brock & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

K. & J. Farquhar & Co., 6 and 7 S. Market
St., Boston.

Hardy Perennial Flower Seeds.
Forest Nursery & Seed Co., Minnville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Aut. C. Zrolik, 11 Bound Brook, N. J.
New crop Sweet Pea Christmas.

For page see List of Advertisers.

Central Appel, Darmstadt, Germany, 13
Hb. 1789. High-Grade Grass, Clover, and Tree Seed.

SIGNS, BADGES, TIME-SAVING DE-
VICES.

N. Stafford Co., 67 Fulton St., New York.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings, Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland & Co., 34 Hawley
St., Boston.

Welch Bros., 15 Province St., Boston.
Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-37 Elliott St., Buf-
falo, N. Y.

CHICAGO.

For page see List of Advertisers.

J. A. Budington, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKelvey, 51 Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Welland & Risch, 39 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Waterson Co., 45, 47, 49 Wabash
Ave., Chicago.

CINCINNATI.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

DETROIT.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
Miami Av.

NEW YORK.

For page see List of Advertisers.

Bonnet Bros., 55-57 West 20th St., New
York.

Ford Bros., 48 West 28th St., New York.

Wm. Gormley, 57 W. 28th St., New York.

Alex. J. Gutman, 43 West 25th St.

Jas. A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.

Julius Lang, 53 West 30th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millard, 50 West 29th St., New York.

Frank Millard, 55-57 W. 28th St., New
York.

John J. Perkins, 115 W. 30th St., New York.

John L. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Tranquely & Schenck, 44 W. 28th St., New
York.

PHILADELPHIA.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

W. E. McKissick, 1614 Filbert St., Phila-
delphia, Pa.

Leo Nusseng, Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phil. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

PITTSBURG.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

ARACARIUS, ASPARAGUS, FERNS AND DECORATIVE PLANTS.

H. A. DEER, 714 Chestnut St., Philadelphia, Pa.

For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

For page see List of Advertisers.

CARNATION PLANTS.

Leo Niessen, 1217 Arch St., Philadelphia, Pa.

For page see List of Advertisers.

FIELD-GROWN VIOLETS.

R. Engelman & Son, Pittsfield, Mass.

For page see List of Advertisers.

HEATING AND VENTILATING APPARATUS.

J. D. Curmody, Evansville, Ind.

For page see List of Advertisers.

NEW CROP CYCLAMEN SEED.

Henry F. Mitchell, 1018 Market St., Philadelphia, Pa.

For page see List of Advertisers.

PEACH PITS.

Franklin Davis Nursery Co., Baltimore, Md.

For page see List of Advertisers.

PROSPERITY CARNATIONS.

August Gadeke & Co., Nashua, N. H.

For page see List of Advertisers.

CATALOGUES RECEIVED.

Charles H. Totty, Madison, N. J. List of chrysanthemums. It contains lots of winners.

James M. Lamb, Fayetteville, N. C. Wholesale price list of greenhouse and garden plants, native bog plants, etc. Arthur T. Boddington, New York City. Summer and autumn bulbs of quality. Handsomely illustrated. Send for a copy.

R. & J. Farquhar & Co.'s Bulb Catalogue for 1905. This is, to our mind, the handsomest bulb catalogue ever issued in America. There are no colored pictures, but the half-tones in which it abounds are works of art, and incomparably beautiful. If a copy of this book could be placed in the hands of everybody how flower lovers would multiply! The frontpiece is a cluster of glorious blooms of 'the picotee tulip,' 'Maiden's Blush,' 6 and 7 So. Market St., Boston.

LIST OF PATENTS.

Issued August 15, 1905.

796,999. Grass Catcher for Lawn Mowers. Chester K. Hann, Columbus, Ohio.

797,171. Fruit Washer. Antonio Ceruti, San Francisco, Cal.

797,461. Knife. Henry S. Schultz, East Greenville, Pa.

797,531. Transplanting Implement. Thomas J. Peters, Owingsville, Ky.

797,175. Paper Jardiniere or Package for Flower Pots. Herman E. Collenberg and Edward Collenberg, West Haven, Conn.

Issued August 22, 1905.

797,562. Ventilated Barrel. George H. Brown, Norfolk, Va.

797,596. Lawn Mower. Friedrich R. Neuhaus, Solingen, Germany.

797,832. Land Roller. Harry E. Youtz and Harvey Z. Youtz, Mountville, Pa.

797,577. Surface Cultivator and Weed Cutter. Harvey A. Vail, Lyon County, Kas.



WANTS.

For Sale

3000 lights glass, 16x24, boxed; No. 10 Furman boiler; piping and frames of two large greenhouses, nearly new, and all in good order. Very low price to sell quickly.

SEYMOUR & MACDONALD

LOCAL DEALERS

South Lancaster, Mass.

FOR SALE—Glass and wood in greenhouse, 20x160, 1012 glass. George Cartwright, Dedham, Mass.

FOR SALE OR TO LET—2 greenhouses, about 900 sq. ft., in good running order; about 1 acre of land, in Dorchester, Boston, Mass. For particulars, address Thomas Stock, 251 Minot street, Dorchester, Mass.

SITUATION WANTED by a young Protestant married man, as foreman on a private place, or to take charge of a small place; life experience; first-class references; state full particulars in first letter. Address Floral, Horticulture, 11 Hamilton Place, Boston, Mass.

SITUATION IN RETAIL STORE—Lady wishes situation, preferably in eastern city. Good experience and competent to take charge of floral department. Character and ability fully vouched for by past employers. Address Business, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A good grower with \$1,000 to take a florist and market gardening place worth \$5,000; fully stocked and fine market. R., care HORTICULTURE, 11 Hamilton Place, Boston.

GREENHOUSES BUILDING OR PROJECTED.

Minneapolis, Minn.—William Donaldson Compan, one house.

Wyandotte, Mich.—J. C. Smith, one house.

Milwaukee, Wis.—William Edlefsen, large additions.

Larwill, Ind.—F. A. Knull, one house.

Mansfield, Pa.—Mrs. Robert Crossley, one house.

Avon, Mass.—E. F. Oliver, additions.

Mrs. Subbuss (who has been working the grass)—"Great Scott! If I talked about seeing pink lawns you'd accuse me of drinking too much."—Philadelphia Record.

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,

BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Washington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examination made. Att'y's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—19 YEARS ACTUAL EXPERIENCE. Book "Obtain Patent," etc., sent free. Patents procured through E. O. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$1. a year.

E. O. SIGGERS, 918 F. ST., N. W.,
WASHINGTON, D. C.

ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON.

Illustrators and Designers

Standard Flower . . POTTS

If your greenhouses are within 50 miles of the Capital, write us, we can save you money.

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

In writing advertisers, mention Horticulture

Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boiler Tubes, Boilers, Tubes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

What the Trade says about the

Peerless Glass Repair Clamp.

"We think your invention will be found a very useful article around a greenhouse and we wish you success."—Ting W. T. BRECKIN, Springfield, Ill.

For a sample address A. KLOEKER, Waunatosa, Wis.

Holds Glass Firmly

See the Point

FULL SIZE
No. 2

PEERLESS

Glazing Points are the best. No rivets or jacks. Box of 1,000 points 15 cts. postpaid.

HENRY A. DREYER,
114 Chestnut St., Philadelphia, Pa.



MR. EDITOR:

i take mi pin in hand tew let u no i am a free man agin. Semantha Jane mi wife that wer got a divoce frum me and the kids hev awl flew the kupe, and mi mother-in-law married the wooden-leg-ed shoemaker over tew Poseyville. so i hant got nuthin tew bother me no more but mi dets an a leetle rumatiz in damp wether. i am a ritin this from Atlantic city where i went from the Floists meetin at Washington and i send u mi pictur so mi frens kin se how i luk on the bord walk drest up in mi nu Klose. "git on tew the dude" i hear sum gals sa as i was a Promenadin on the bord walk. now i want every body tew no i may be a danda but i ant no dude. an i aint no koward nuther, fur tho i got the wust uve the bargin in mi fust wife ime willin tew tri i agin. so if u no uv a rite peart gal or widdie wat hant seen more'n 16 sumers an 40 winters an tha want a gud natered man tew keep em in ribbins an chewin gum, jist tell em tew rite tew me fur spicifications, if she have a little munney her chances is better, an sa tew her i make the best Kole savin Bilers, Green-house ventilator contrap-

shins and everlastin sash hinges on arth and ile take her to all the Florists Konventions. mi name is

J. D. CARMODY, an i live in **Evansville, Ind.**

witch is klose tew Posey Kounty

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
SCOLLY HOT WATER
and STEAM BOILERS

JOHN A. SCOLLY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

CYPRESS WRITE FOR CATALOGUE

GREENHOUSE MATERIAL

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO

OF EVERY DESCRIPTION

In writing advertisers, mention Horticulture

The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all gues-sing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine will leak as the most durable, easiest working and the all-around trustworthy machine

The Duplex Gutter is gaining all the time. Over 12,000 feet sold thus far this season. Catalogues free.

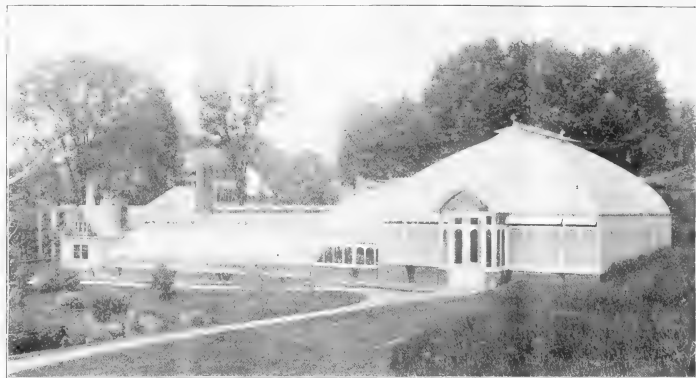
E. HIPPARD, Youngstown, Ohio

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE, 11 FIFTH AVE. 74 FRANKLIN ST BOSTON



A Conservatory at Northampton, Mass. Designed and erected by Burnham Hinchings Pierson Co.

IN this Conservatory note how pleasing its architecture—its intimate relation to the grounds. We have done these things for 40 years. Catalog H-4 is full of beautiful half-tones showing work we have executed.

BURNHAM HITCHINGS PIERSON CO.

GREENHOUSE ARCHITECTS AND BUILDERS

1133 BROADWAY, NEW YORK

BOSTON BRANCH, TREMONT BUILDING

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"PECKY CYPRESS"**

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

In writing advertisers, mention Horticulture

GLASS

*FACTORIES ARE NOW CLOSED
for the season. Our stock is complete*

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

In writing advertisers, mention Horticulture

THE HOLLY CASTLE

Electric Circulator

THE SENSATION OF THE S. A. F. EXHIBITION

Induces independent hot water circulation. Can be attached to any system of piping at light expense

The greatest boon in many years for the greenhouse man

Send for Descriptive Circular

HOLLY CASTLE CO., Engineers, 49 FEDERAL ST., BOSTON.

In writing advertisers, mention Horticulture

H. H. SYLVESTER Mason and Builder

818 Tremont Building, Boston, Mass.

GREENHOUSE Mason Work a Specialty

In writing advertisers, mention Horticulture

HORTICULTURE

Vol. II.

SEPTEMBER 16, 1905

No. 12



GREENHOUSES AT SOMERVILLE, N. J.
Erected by Burnham Hitchings Pierson Co.

*devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

SEP 18 1905

VARIEGATED LAWSON CARNATION

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. If our own retail sales are any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the flowers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers. Its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to carnations, says he knows that it will outbloom that popular variety, Mrs. M. A. Patton three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

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HORTICULTURE

VOL II

SEPTEMBER 16, 1905

NO. 12

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CONTENTS OF THIS ISSUE

FRONTISPIECE—Greenhouses at Somerville, N. J.	
MELONS UNDER GLASS—Illustrated—Robt. Marshall	295
A GREAT LONDON PARK—J. A. Pettigrew	295
BRITISH HORTICULTURE—W. H. Adsett	296
ITALIAN GARDEN AT NEWPORT—Illustrated—David McIntosh	297
ACHIMENES—K. Finlayson	298
ROSE-HOUSE WISDOM—R. T. McGorum	298
GREENHOUSE RHODODENDRONS—Edgar Elvin	299
MORE ABOUT TRUE BEAUTY—G. C. Watson	299
EDITORIAL	300
NEWS OF THE CLUBS AND SOCIETIES	
Newport Horticultural Society	302
New York Florists' Club	302
Nassau Co. (N. Y.) Horticultural Society	302
Montreal Horticultural Society	302
Gardeners' and Florists' Club of Boston	302

NEWS OF THE CLUBS AND SOCIETIES—Continued.	
Kentucky Society of Florists	302
Milwaukee Florists' Club	302
New Haven Co. Horticultural Society	303
Massachusetts Horticultural Society	310
CUT FLOWER MARKET REPORTS	
Boston, Buffalo, Chicago, Cleveland, Indianapolis, Louisville, New York, Philadelphia	305
MISCELLANEOUS	
Philadelphia Snap Shots	301
What They Say of Us	301
Buffalo Notes	301
Montreal Notes	301
Personal	301
Seed Trade Topics	301
News Notes	301
Obituary	301
Greenhouses Building or Projected	310
Business Changes	310
Catalogues Received	310

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7 " "	20 to 24 " "	4 to 5 " "	2.00 " "

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4 " "	1.25 " "	10.00 " "
8 " pans.	6.00 " "	

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PROOF
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BULB CATALOGUE 1905

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"MAIDEN'S BLUSH"

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	100 Seeds	1000 Seeds
Giganteum Album , White.....	\$0 75	\$8 00
" Roscum , Pink.....	75	6 00
" Rubrum , Red.....	75	6 00
" White with Red Eye	75	6 00
Mixed	60	5 00

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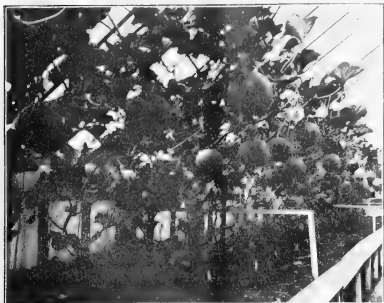
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Melons Under Glass



The subjects of the accompanying picture were grown on the front bench in the rose house. Seeds were sown March 9th, some in pots and some in pieces of sod. When large enough they were planted in their permanent position, two feet apart, a trellis being already in position to tie them to as they grew. I would say that the trellis is a permanent one; as we take a crop of melons off every year, we leave the trellis in position. We try to get the crop off by the first of August and plant the bench with roses. This year we started cutting on July 10th, and at this writing, early in August, two-thirds of the crop is gone and the bench replanted with roses, Brides, Bridesmaid, and Richmond, the remainder to be planted with Liberty. The polinization of the melons was more difficult this year than usual. The first settings would not take, owing to the weather conditions, but we kept at it until we got two, three, and four set on each vine, which we call a good crop for the distance they were planted apart. The varieties we grow are Royal Favorite, Royal Sovereign, Scarlet Invincible, Gunton Scarlet, Lyon Perfection, and Windsor Castle, also a seedling which seems promising. The soil used is turfy loam with a very little manure. Much manure makes too rank a growth, and then it is hard to get the fruit to

Robert Marshall

A Great London Park

Battersea Park in London is on the banks of the Thames and conveniently situated for a large population of working people. It contains about 200 acres and is laid out with a large expanse of turf in its centre. The borders of the park are thickly planted with trees and shrubbery forming an effective screen against street life. A music pavilion with ample seating capacity on a tree shaded concourse is located near the centre of the park. The remainder of the open turf is devoted to playground

purposes. Paths cross the playground in various directions; these are bordered on either side with iron fences. For these fences there appears to be no good reason as they do not serve the intended purpose. Cricket is the game of England, and in the pursuit of flying balls the boys and men engaged in the game make light of the fences, jumping them at will. Nor are pedestrians deterred from jumping them if thereby a shorter cut can be made than offered by the walks. They give a confused appearance to the open turf and considerably mar the landscape effect. In one corner are open air gymnasias, one for children, another used by men and boys; that for children being in charge of a matron.

Bays and laurel are largely used in the shrubberies along the borders, in which large quantities of annuals and bedding plants are also introduced. In a slight depression a very pretty piece of bedding is done; a good belt of trees and shrubbery surrounds the hollow which serves as a background for the plants and gives the garden a pleasing appearance of seclusion and enclosure. A small sheet of water adjacent, with foliage bordered edges, lends additional attraction to the spot. The contents of a few of the beds were noted as follows:

Hydrangea hortensia bordered with alternanthera, next yellow-foliaged geranium edged with Viola cornuta. Another had a center of Nicotiana affinis edged as that noted above. A bed of fuchsias edged with dwarf blue ageratum and a sweet alyssum border, bed of Paulonia imperialis and aiantus mixed, edged with Funkia latifolia. An irregular bed of heliotropium, Plumbago capensis and Abutilon Thompsonii mixed, bordered with Coleus Verschaffeldtii, yellow-foliaged geranium, Achyranthes and yellow-foliaged geranium in the order named; triangular spaces in this bed were filled with ivy-leaved geraniums.

A long oval bed had for a center a mass of Solanum marginata edged with Lobelia speciosa and Mesembryanthemum cordifolium variegatum.

Oval bed of cannas and yuccas edged with ornamental beet and blue lobelia.

A long bed broken in the center by a circular bed was treated with acacia, bedding begonias of a rose color, salpiglossis, dwarf yellow-foliaged fuchsias and lobelia. The center circular bed was composed of Grevillea robusta with a ground of Mimulus moschatus and border of begonia and lobelia.

What might have been a pretty simple glade effect, was rendered spotty and confused by placing palms and other exotic plants in tubs down its center. The banking of such plants at other points was well done. Some of the mosaic beds were too complicated a pattern to attempt a description of them. Wonderful examples of skill in mechanical gardening are they.

J. A. Pettifew

British Horticulture

AN AMERICAN ESSAY

An essay on "The Progress of Horticulture in the United States"—deferred from a meeting on July 4th—from the pen of Professor Webber, the U. S. Department of Agriculture, of Washington, was read before the fellows of the Royal Horticultural Society on August 15th. Dealing with the remarkable growth of the fruit industry in America, Professor Webber referred to the important part which refrigeration has taken in this development, and the immense strides made in peach growing in Georgia. He paid a tribute to the practical and business-like way in which the American nurserymen conduct their undertakings, describing them as intelligent, wide-awake men, who sought to advance the industry of fruit growing in every way. To the nurserymen of the United States was entirely due the various fruit growing extensions. They had furnished information as to propagation, culture, where and how to plant, which had enabled the industries to be built up. As a result of careful study and the trials at the experimental stations the knowledge of cultivation and manuring had extended. The large commercial orchards which had followed the adoption of a thorough system of refrigeration, had produced a better and more thorough system. Prior to this fruit cultivation was only a matter of secondary interest. Professor Webber gave some interesting information on the changes made in recent years in order to secure suitable fruit for cultivation, incidentally mentioning that many European varieties had been found unsuitable.

A BRITISH VIEW

Mr. George Bunyard, a leading authority on fruit culture in Britain, who presided, remarked at the close of the reading of the paper that apparently they had very little luck in growing European varieties in America. On this side they had secured but a little result from the varieties imported from America. He thought a majority found a place upon the bonfire. There were just a few which might be mentioned as an exception to this rule, such as the pear, Clapp's favorites. This is a very handsome pear, which comes in at a time when there is no other to equal the size of it, if grown well upon a quince stock. Another sort, Lady Clapp, which he presumed came from the same raiser, promised to be very fine. He was propagating it with a view to finding out its advantages. As regards the apples, Mr. Bunyard spoke highly of King of Tompkins County, and in the plum section he praised the one introduced by Mr. Burbank. The latter was remarkable for the profusion of flowers produced. He considered that this was the most valuable to this country of the wonderful introductions Mr. Burbank has sent out. The speaker concluded by proposing a vote of thanks to Professor Webber, remarking that although many of the facts given were not new to practical horticulturists the paper was very interesting and would prove of value when published in the Society's Journal.

SEED TRADE MORALITY

We have reached the dull season when newspapers in search of "copy" allow their readers to express their views on all topics under the sun. A correspondent has taken advantage of this freedom to make a virulent attack on the seed trade. This anonymous writer makes the serious assertion, without affording any proof, that "falsehood and deceit are regularly practiced in the agricultural and horticultural seed trade." There is a strong feeling of resentment in the trade against this unwarranted attack by an irresponsible censor. I invited a leading firm of London seedsmen with a world-wide reputation to reply to the allegations. In response they wrote: "We are quite willing for anyone to see our trial grounds, and the way we select, and the care we take to have the best stocks of seed procurable; our rapidly increasing connection is the best proof we have that the letter has no interest for us." The best answer to the charge is the fact that many of the principal houses in the seed trade have been in existence for generations, and it is obvious that their businesses with customers in all parts of the empire could not have been built up on a basis of commercial dishonesty. The utilization of efficient tests is more generally adopted, for most of the buyers have facilities of this description, so that the possibility of deception is now very small.

SOME NEW DAHLIAS

Dahlias are now becoming a feature at the shows of the Royal Horticultural Society, giving a reminder of the near approach of the annual exhibition of the National Society associated with that flower. Messrs. Stredwick and Sons of St. Leonard's, who are usually at the front as prize-takers have just secured awards of merit from the Royal Horticultural Society for two novelties in the cactus section. William Marshall, with a yellow centre shading off to orange, and T. A. Havemeyer, bright crimson. Jno. S. Mortimer, of Rowledge, Farnham, Surrey, who has secured 100 gold and silver medals, has a number of new introductions which are likely to be seen on the show stands. These comprise Alexander, a bold dark crimson flower, flushed with maroon, with a fine centre; Innocence, with bright yellow base, the fluted petals being broadly margined with white; Mrs. J. S. Brunton, deep yellow; Blush Queen, rosy pink, with a creamy white centre; Vivid, bright orange scarlet. The whole of these have been raised by Sir Mortimer who has several acres devoted to this subject at his Surrey nursery. The popularization of the cactus varieties during the last twenty years has done a great deal to bring the dahlia in favor. This section still retains its hold on the public, for the new introductions are generally in this branch, and by selection the former defects of the flowers are being gradually eradicated.

THE PREMIER PROVINCIAL SHOW

The show held annually at Shrewsbury is regarded as the largest and best one outside London. This impor-

tant fixture has just been held, but unfortunately the wet weather marred its complete success. Once again the leading nurserymen contributed their novelties and the finest specimens from their conservatories and gardens, enabling provincial residents, who are prevented from getting to London, to see the latest introductions. This show, like the leading Metropolitan ones, largely owes its attractiveness to the splendid support accorded by the trade, who spare neither time nor expense in making noteworthy displays. The exhibits are object lessons in the advance made in recent years in horticulture in this country. For cultural skill British gardeners have gained world-wide fame; it must be admitted, however, that our French neighbors can give the Britishers points in the effectiveness of their grouping, and artistic arrangement of exhibits. Of the educational value of these shows there can be no question. Amongst the visitors at Shrewsbury were a party of employees of the Irish Department of Agriculture, under the guidance of Mr. Moore, of the Royal Botanic Gardens, Dublin. These visitors subsequently made a tour of inspection of the large area of fruit plantations in the vale of Evesham, in Worcestershire.

A LADY MARKET GARDENER

The establishment of horticultural colleges for women has induced many of the fair sex to embark upon gardening as a profession. After paying a heavy premium and studying at the colleges some of the women have obtained situations as gardeners, but in several cases this branch of work has not been altogether successful. They have found the life irksome and underpaid. Some of the students who have commenced on their own account as florists and market gardeners have done very well, provided they had ample capital and the requisite energy and enterprise. In a northern suburb of London Miss Dowie has for the last three years conducted a market gardener's business and she personally superintends the glass-houses and plots. She cultivates cucumbers, mushrooms, chrysanthemums, etc., and these are supplied to retailers. Miss Dowie understands the practical side of the business, and on Sundays takes a hand in the watering. As a result of her experience she has come to the conclusion that a comfortable living can be derived from the business, although the excessive competition prevents a fortune being made. Several other women gardeners are turning their knowledge to account. Miss O'Connell, a descendant of the famous Liberator, has commenced bulb growing in Ireland, where this branch of horticulture has made great strides in recent years.

EXTENSION OF LAVENDER CULTURE

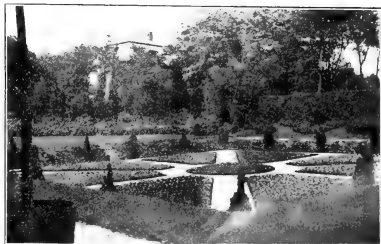
During a recent tour in the south of England I came across a new flower farm which has been established at Broadstone in Dorset. Hitherto large quantities of lavender have been cultivated at Mitcham, close to London, but the land in that neighborhood is gradually passing into the builder's hands. In Dorset land is

very much cheaper, and it has been found in every way suitable for cultivating the sweet-smelling herb. In addition, wall-flowers, violets, and carnations are cultivated, and these, besides the lavender, are distilled and rich perfumes abstracted. It is contended by a member of the firm owning the farm that instead of paying thousands of pounds to foreign countries for floral and medicinal essences, it is possible to grow most of the requisite materials in Britain. An excellent start has already been made and near the farm is a factory where English lavender water was in great favor, and then the crop of this fragrant flower was very profitable. Public tastes change, and in recent years the cheap foreign essences have made a great difference to the British trade. A commendable effort is now being made to revive this industry. Already trade with Canada has been established with the firm in Dorset. Satisfaction is felt that land which has hitherto been regarded as practically waste can be utilized for such a useful purpose.

W. H. Adsett.

Aug. 30, 1905.

Italian Garden at Newport



The accompanying photograph shows the Italian or sunken garden at the Newport residence of Mr. E. C. Knight. All the beds are planted with fibrous rooted begonias in various colors, one color in a bed. The effect produced is exceedingly pleasing, the begonias having almost as uniform an appearance as plants used in carpet-bedding without the stiffness or dullness of the latter.

The picture, however, conveys little idea of the beauty of this garden which was a mass of bloom nearly three months ago and will continue so until late in the fall.

David McIntosh.

Achimenes

This is a class of somewhat fragile and tender decorative plants, but exceedingly ornamental when well grown for conservatory or dwelling house adornment. The various receptacles that they adapt themselves to for purposes of ornamentation makes them doubly useful for artistic effects. They can be grown in baskets, fancy or grotesque, as well as they can be in plain pots and pans; the former to be useful as suspended plants from the roof of the building they are intended to garnish when in flower. They are especially well adapted in supplying artistic effects when placed in nooks and corners on brackets in a pretentious conservatory, when they blend harmoniously with other well-chosen subjects.

Again, the colors afforded by this race of charming plants are quite striking and pleasing, the blues of various hues and intensity being particularly attractive.

Achimenes are not difficult to grow; with a little pains-taking at the beginning of their culture, any ordinarily intelligent person should succeed with them quite satisfactorily. They require stove treatment at starting time, but should be transferred to a warm greenhouse soon after they appear above ground and be kept close to the glass. This induces a short and sturdy stem which is very essential to good flowering and shapely plants; they also should be shaded from bright sunshine. In approaching the flowering stage cooler and more airy treatment is necessary as they will hold their flowers longer in perfection in such quarters; they should not, however, be transferred to quarters where violent gusts of wind blow on them, as the flowers are exceedingly delicate and easily disfigured by clashing or rubbing against each other in heavy gusts of wind.

Any good light soil will suffice for a compost to grow them in; maiden sod well rotted, with a 2-5 supply of good leafmould in lieu of peat, sand and charcoal nodules in addition will make a good compost, other detail being scrupulously attended to.

Achimenes do best in a limited quantity of soil, that is in shallow pans or well-drained pots. The scaly bulbs, or stolons as they are termed, should be stratified evenly 1-2 inch under the surface of the soil; if some start more vigorous than others it is well to pinch them back a bit; this will tend to have them conform with less vigorous companions and result in a more compact and finished plant.

The English method of starting achimenes in other receptacles than they are to grow and flower in—that is, starting them in boxes or pans and when they are an inch or two grown transferring them to their flowering pots,—I certainly would not recommend, as being certain of checking the plants in the operation. Stimulation by artificial manures is necessary to obtain best results, and it is astounding how much they stand of it, considering their otherwise frail nature. Sheep manure water, Cleary's fertilizer and guano I have had excellent results from.

Some short time after the plants are done flowering water should be given less frequently, gradually withholding the same until finally it is dispensed with altogether. Some hold that they will winter best in the soil that they grew and flowered in undisturbed. I am inclined to that belief myself, though I have wintered them well and often shook out clean, afterwards packed away in clean sand in separate stout paper bags, consigning them to their winter keep in a dry and semi-warm place in boxes or drawers whichever is most convenient.

One of the important steps in achimenes culture, as with all other plants, is to obtain the best varieties, and to that end I subjoin the following varieties: Ach. longiflora major; this is one of the finest of all. Ach. longiflora, the type, is a fine variety; flowers violet in the latter, in the former flowers large blue. Mauve Queen is a splendid variety, flowers large and mauve in color with brownish spots in the throat, habit compact and excellent. Longiflora alba similar to the type in form and habit, one of the best whites. Margaretta, pure white, fine but not so large as the above. Madame A. Verschaffel, flowers large, pure white ground, considerably veined with purple; very showy variety. Pink Perfection, deep rose, eye rayed carmine and violet, very fine. Rosea magnifica, bright rose with a yellow eye and spotted; a lovely variety. Harry Williams, bright cerise red, large yellow eye, petals nicely fringed, one of the best red varieties. Aurora, rich rosy scarlet, yellow throat, large and fine. Williamsii, bright scarlet, orange throat, flowers large, habit free, splendid variety. Lady Littleton, carmine rose, large, white throat, excellent.

H. Emblayson

Rose-house Wisdom

Close your house up tight before the sun goes down to keep it warm during the night. This was the advice I read once, some years ago, in the latter part of August. Whether the writer practiced it or not himself I never have had a chance to find out. We started heat this year the middle of August, earlier than we ever have done. With about one inch of air on the houses and a little heat run round in the early hours of the morning tends to get up a circulation and dry the air which otherwise would become charged with moisture and show that nice-to-look-at appearance, little bells of water adhering to the edges of the leaves. Much has been written regarding this but there are some who fall into the trap every year. I was caught once myself not having the heat connected in time. I got a little experience which proved valuable to me in after years, black mildew is what it is generally called. Not later than last year I saw a fine house laid up for the winter with this same thing. It may seem extravagance to start fires so early, but it pays. Remember the health of your plants now is what counts usually for the carrying them through the winter. Repairs on boilers should be made at once if in the rush of work they have been neglected. About steam boilers, horizontal tubular type, water should have been drawn off, manhole and handhole plates taken off, and the inside washed thoroughly out with a hose, then swab with a cloth any water that may be lying on the shell, and dry thoroughly leaving everything open. In starting up we put in soda ash after the water becomes warm enough to dissolve it, which keeps the tubes and shell, especially if they are steel, from pitting. The boilers should receive more care than anything else as they are the most essential part of a florist's establishment in the winter.

Rollins

Greenhouse Rhododendrons

These fine winter-flowering plants for some reason have not yet come to their own, partially eclipsed, perhaps, by the hardier varieties. Easy to grow as an azalea they have not commanded the admiration given to that general favorite; yet who that has seen them at their best will question their claim to equal honors either in usefulness or beauty, covering a wide range of delicate and refined colors. They are invaluable as choice cut flowers and especially suitable for bouquet work. Specimen plants, well grown, are a delight to the eye, but there is nothing more unsightly than leggy, stunted or unshapely plants.

Divided into two groups, namely, Javanese and Himalayan, the former represented typically by javanicum and the latter by Countess of Haddington; to these must be added the new doubles which are nearly all the product of crossing these two sections. We are greatly indebted to Messrs. Veitch of England for the raising of many choice hybrids and especially for the doubles such as "Cloth of Gold," etc. The great increase of varieties of late years makes a selection desirable. The number of fine things in the Javanese section quite put in the shade the old Himalayan varieties; many of them, it is true are pretty and fragrant, but with the exceptions of Veitchianum and Lady Alice Fitzwilliam they have little commercial value and are rapidly passing out of date.

Jasminiflora and Princess Alexandra still keep their place as the best whites. The former with its delicate and lengthy corollas, coupled with a sweet fragrance, is just the thing for bridal bouquets. Javanicum, with its immense bright orange trusses of bloom, is only seen at its best as a specimen. Lord Wolsley is a hybrid from javanicum and a more compact grower, flowers very large of a bright-yellow color. President is derived from Lord Wolsley and is similar, being of a clear buff-yellow tinted slightly with rose.

La Favorite, a delicate satiny rose, is a distinct sort, not unlike the old Taylorii. Duchess of Tech, Maiden's Blush and Princess Frederica are closely allied in color, being of a light buff-yellow. Duchess of Connaught, thought rather a sticky grower, still remains the best bright red. Duchess of Portland (new) is an acquisition, being a hybrid from jasminiflora and Princess Royal. It is of a beautiful shade of soft pink with the lengthy tube of jasminiflora, a most compact grower and wonderfully free; it is a gem and was selected as the best out of scores of crosses.

The double balsaminiflora album and aureum were great novelties when introduced, but being of weakly constitution are being rapidly superseded. Veitchianum remains an ever-popular subject. A specimen with masses of its white fragrant blossoms is an unforgettable sight, but Lady Alice Fitzwilliam is perhaps the best and most favored of all greenhouse rhododendrons.

As to propagation, the Javanese section should be grafted, using nice, healthy straight plants of Princess Royal as stock. The Veitchianum section root freely from cuttings, finely sifted peat and equal proportion of silver sand being used, in gentle bottom heat. The first stage growth should be nipped out if short, shapely plants are desired. Rhododendrons delight in a cool, moist temperature during growth and watering freely, but as the flower buds are setting it should be applied more sparingly. After flowering a decided rest must be given in cool dry quarters. Thrips are their worst enemies and should be sedulously sought and prompt remedies applied, using Gishurst Compound. As root-

ing material use rough peat and sand with one-third well-decomposed leaf mould, mixing a few days before use, watering this well if dry. Hard potting should be the rule, with good drainage. The cultivator who takes these subjects in hand with patience and attention to their simple requirements will meet with a rich reward at a season when variety inside is doubly welcome.

Edgar Chive

More About True Beauty

George Moore in his dissertation on True Beauties and Coupe de Hebe in HORTICULTURE recently struck a note that is all too rare in these matter-of-fact days. When we compare our literature with that of olden days there is a distinct falling off in that richness and delicacy of feeling which seemed to prevail among the lovers of nature 500 years ago. I was reading a passage the other day in Gawain Douglas (Bishop of Dunkeld in 1470) which I think bears out the point and is worth repeating for its effulgent appreciation of the world about us, and not only that, but makes clear that the natural paradise is largely in the seeing eye—ancient or modern.

"The blossoms in the blowing garden trusted their heads to the protection of the young sun. Rank ivy leaves overspread the walls of the rampart. The blooming Hawthorn clothed all the thorns in flowers. The budding clusters of the tender grapes hung endlong by their tendrils from the trellises. The germs of the trees unlocking, expanded themselves into the foliage of nature's tapestry. There was a soft verdure after balmy showers. The flowers smiled in various colours on the bending stalks; some red, others wachet like the blue and wavy sea, speckled with red and white, or bright as gold. The daisy embraided her little coronet. The grass stood embattled with banewort; the seeded down flew from the dandelion. Young weeds appeared among the leaves of the strawberries and gay gilliflowers. The rose buds, putting forth, opened their red vernal lips to be kissed, and diffused fragrance from the crisp scarlet that surrounds their golden seeds. Lilies, with white curling tops showed their crests open. The odorous vapour moistened the silver webs that hung from the leaves. The plain was powdered with round dewy pearls. From every bud, scion, herb and flower bathed in liquid fragrance, the bee sucked sweet honey. * * * The painted peacock, with gaudy plumes, unfolded his tail like a bright wheel, enshrouded in his silver feathers resembling the marks of the hundred eyes of Argus. Among the boughs of the twisted tree the small birds framed the artful nest or along the thick hedges or rejoiced with their merry mates in the tall oaks. * * * The ring dove coos in the tall copse; the starling whistles her varied descant; the sparrow chirps in the clefted wall; the goldfinch and linnet fill the skies; the cuckoo cries, the quail twitters; while rivers, shaws, and every dale resound; and the tender branches tremble on the trees at the song of the birds and the buzzing of the bees."

Can John Trotwood Moore or Thoreau or any of the rest of our moderns beat that pen picture? And remember that was in Scotland in the year 1470 about the time Christopher was bracing Ferdinand and Isabella for the loan of a boat to discover America, and long before that great educator, the Society of American Florists, had been thought of.

G. Watson

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, *Editor and Manager.*

Possibilities in advertising

In no direction has the great growth, commercially, of ornamental horticulture been more conspicuously shown than in the amount of trade advertising.

The evolution and progress on this line even within a period of ten years has been far beyond the wildest forecast. And still there are innumerable possibilities for advertising that, as yet, go unimproved. A glance over the list of florists, nurserymen and seed growers and dealers that are doing business in our vast country will reveal the exceedingly small percentage of the aggregate who have as yet learned to take advantage of modern methods of business publicity. The great majority still exist in self-imposed obscurity. There is an immense amount of latent opportunity, with possibilities equal to if not greater than have yet been utilized.

True philanthropy

Men and women of philanthropic turn select various ways by which during life or after death they may promote the happiness of humanity. Among the recent public benefactions none strike us more impressively as to their ultimate value to mankind than the several bequests of land for perpetual park purposes. These public breathing spots will become more and more of a blessing as time goes on and population in business centres becomes more congested. Libraries and educational institutions are good, but first of all in the making of a race of intelligent, morally and physically healthy people must we place the boon of pure air and verdure. No more lasting and appropriate method can possibly be found for the public-spirited citizen to perpetuate his name and endear his memory than to provide these necessities for the well-being of present and future generations.

The S. A. F. and the gardener

We heartily endorse the editorial in our New York contemporary on the relations of the S. A. F. and the gardener. Demands on the society that it go through a process of voluntary reincarnation in order to suit the caprices of critics who have never yet extended a helping hand to it, savor a little of the unreasonable. "In the multitude of counselors there is safety," but let fealty first be demonstrated. Get into the ranks, gentlemen, put your shoulder to the

wheel alongside of your fellow-workers and then watch out for results that will astonish and electrify the horticultural world.

Floral bedding in parks

Mr. Pettigrew's interesting letter in this week's issue of Horticulture throws a little side-light on park gardening in England which will surprise some of our readers who know how strongly prejudice has grown in this country in recent years against the sort of park bedding that Mr. Pettigrew describes and, on the other hand, have heard this modern American preferment of "restful green" in park aspects criticized as a mania for imitating English methods. It is reasonable to assume that many people of refinement, utterly offended at the deplorable taste displayed in much of the flower bedding set before the public, have in their impatience gone too far towards the other extreme. There should be found a "happy medium," for bright colors in flowers and foliage are a delight to the eye, give pleasure to the public and their influence is always wholesome. We submit that there is a place for true art in garden designing and that it allows a liberal use of all classes of flowering plants, without doing violence to what true taste recognizes as natural, fit and proper and without obtrusive artificiality.

Rise of the single violet

Observant dealers and growers of violets look for a probable increase of the favor accorded last season to the single varieties,—especially the Princess of Wales,—in some localities. There seems to be good foundation for this belief. In one market at least—Boston—the single varieties have outstripped the doubles in demand and in price for the past two seasons. Admitted that this is due in part to the low grade of Marie Louise in this section, it is also unquestionably true that the single violet owes much of its preferment to its sweeter odor and more graceful form. Again, as in the case of the supplanting of the old-fashioned solid bouquet by the loose, long-stemmed flower bunch in which Boston was also the pioneer, the pie-plated style of violet bunching is destined to give way to the less formal arrangement on which Boston has placed the stamp of approval and for which the single form with its lighter flower and longer stem is especially adapted.

Unwise business tactics

The busy season is not far off. You will probably see that man who swindled you last year assiduously patronizing your competitor this season. Maybe he's a pretty bad competitor and it's a big temptation to let the scamp get in a big bill with him just as he did with you last year. But is it wise? Is it justice to your avocation to allow dishonest people to live on it unmolested merely to gratify some personal resentment or to wink at a swindle when it is perpetrated on somebody else? There are some matters in which no business man can afford to act selfishly, and this is one of them. Where unneighborly policies prevail the retribution is sure to be pretty well distributed in the long run.

PHILADELPHIA SNAPSHOTS.

S. S. Pennock is expected back from his vacation on the 18th inst. He is bound to be in the fashion. His latest is high heeled shoes for his high-stepping greys, with grey ribbons to match. There has been some anxiety in the ribbon department as to the proper shade of red for the red-haired girl, but E. J. Fancourt is now confident he has all the shades: golden, auburn, light brown, chestnut, and terra cotta; and challenges anyone to stump him on the red-haired proposition.

William P. Craig met with a painful trolley car accident on the 6th inst., which has confined him to his bed for over a week. He expects to be up and about, however, so as to be present at his wedding, which takes place in about two weeks. We trust he will make an effort, as it is quite important he should be on hand on that occasion.

Horace Dumont is priding himself just now on being a mechanic. He has built, largely with his own hands, an addition to the rear of his store, ripped out an intervening partition preparatory for a new Thackara refrigerator, painted the counters and papered the walls and ceiling.

Billy Stevens, who has had the distinction of selling John Burton's flowers in Philadelphia for some time back, had a reception prepared for him in the Flower market on Monday. His hall was nicely decorated by the boys—the walls being festooned and dotted with wreaths, shower bouquets, interspersed with inscriptions such as "Welcome Back, Billy," "May You Have Good Luck," and so forth; but it all went for nothing.

Mr. McKissick, our new wholesaler, still wears the smile that won't come off. Business away beyond his expectations.

Paul Huebner, who has charge of the landscape department of the Reading R. R., disagrees about the best red canna. His favorite is Fuerst Bismarck. Next. But Paul is no mean judge!

We must say a good word for dahlia Katherine Duer as seen at Baker's. Nothing finer in the way of a dark crimson can be imagined for decorative effect, especially under artificial light.

SEED TRADE TOPICS.

Sweet corn which was causing anxiety some time ago seems to have weathered all storms, and nothing short of a severe freeze within the next few weeks can prevent a good crop. The quality should also be excellent.

At the recent meeting of the Wholesaler's Seedsmen's League it was decided to advance prices on many items, particularly in the line of peas, beans and onion seed, owing to the shortage in these crops. Many of the large retailers, and in fact wholesalers as well, are asking for prices, and there is more general activity than is usual at this time of year. Another good season for the seedsmen seems assured.

WHAT THEY SAY OF US.

Stop our ad. in Horticulture for Prosperity carnation; all sold. Your paper certainly does the selling.

AUGUST GAEDEKE & CO.

BUFFALO NOTES.

Visitors: Mr. Fleischmann, New York; F. C. Weber, Jr., St. Louis, Mo.; Otto C. Gilles, bookkeeper for Wm. F. Kastina, is spending his vacation at Mt. Clemens, Mich.

The Toronto fair, which opened on Monday last, called away Mr. W. A. Adams, who was appointed on the committee of judges for the floral show which is being held in the horticulture building.

After a long term of quietness among the many retailers, trade has finally gotten over its sleepiness, and is offering a few wedding decorations and store openings. Those who are the lucky ones will be kept busy for some time. Since the first there was a rush of a few days, dinners, receptions, luncheons, teas, and vacationists returning, which latter no doubt accounts for same, and the beginning of the week found everybody cheerful and hopeful in anticipation of improving business.

MONTREAL NOTES.

Mr. George Hopton is back from an extended trip to the old country, and is much improved in health.

The seed people are beginning to receive their invoices of Bermuda and French bulbs, which appear to be much better than usual.

Mr. Elvin, the late local representative of Horticulture, has returned to England, and was on the ill-fated S. S. Victoria which ran aground near Quebec.

The province of Quebec has enacted a new by-law, which has recently been put in force: "That all commercial travellers and others who do not represent firms having a place of business in Canada shall pay a tax of three hundred dollars (\$300), under a penalty of \$500 fine." This will tend to keep away the bulb men among others, as the tax is almost prohibitive.

PERSONAL.

Visitors in New York this week: Judge C. W. Holt, Nashua, N. H.; George C. Watson, Philadelphia, Pa.; E. S. Osborn, Rochester, N. Y.

Fred. R. Mathison of Waltham, Mass., and Miss Catherine Zwicker of Boston, were married at the home of the bride's sister in Hyde Park on Thursday, August 14. The happy pair started at once on a bridal trip via Providence and the Norfolk steamer to Norfolk and Washington and will return via New York city and the Hudson river.

Theodore Wirth, superintendent of the parks of Hartford, has resigned to accept a similar position in Minneapolis at a salary much larger than is paid at Hartford. During the years of his connection with the Hartford park system, Mr. Wirth has shown professional skill in a high degree, and Hartford's public grounds have become famous under his management. His departure from New England will be felt keenly by a host of friends who have become warmly attached to him because of his high abilities and because of his admirable personal qualities. It will not be easy to fill the place thus left vacant. Minneapolis is to be congratulated.

NEWS NOTES.

A hearing on the bankrupt estate of Albert L. Hall of Meriden, Conn., was held at New Haven on September 6. George A. Sutherland Co. are displaying evidences of activity and prosperity in a thorough refurbishing of new show cases, etc., at their store, 34 Hawley street, Boston.

Wallace Hubbard, assistant forester of the government forestry service, who was drowned while on a canoe trip down the Potomac, has been succeeded by his widowed mother.

N. W. Hannaford of Gorham, Me., has just completed a fine greenhouse for carnations, and intends to follow this in the spring with another house for violets. His many friends wish him success.

In recognition of his wonderful achievements in the field of horticulture, and for the fame that he has brought the State of California, the state board of trade will give a banquet next week at the Palace Hotel in honor of Luther Burbank.

The horticultural department of the New Hampshire state college entertained some 75 prominent horticulturists, agriculturists and seed men of Boston and vicinity on September 12. The new greenhouses, where much of the experimental work is conducted, were inspected and a dinner comprised of the products of the farm was served.

The Clucas & Boddington Company made a general assignment on Sept. 7 for the benefit of creditors to Frank H. Henry, of the firm of Henry & Lee, who has assumed the administration and settlement of the assigned estate. Mr. Henry is examining the books of the concern and expects to make a statement of assets and liabilities within a few days.

This assignment does not in any way affect the affairs of Arthur T. Boddington, who withdrew from the Clucas & Boddington Company last year.

OBITUARY.

N. B. Kenney of LeRoy, N. Y., of the seed firm of N. B. Kenney & Son, died on September 5, aged 85 years.

S. P. Rees of the seed and bulb growing firm of Rees & Compere died suddenly at Los Angeles, California, on August 31.

Mr. Nathaniel Baker, a prominent florist of Methuen, Mass., died suddenly at his home on September 9, after an illness of but a few days. He was 68 years of age, and is survived by a wife and two daughters.

Mr. Frederick C. Rossiter, aged 61, one of the oldest civil engineers in Chicago, was struck and instantly killed by a train on September 6. Mr. Rossiter has always been identified with agricultural and horticultural interests, and held official positions in several societies.

Charles B. Humphrey died at his home in Rome, N. Y., on September 2. Mr. Humphrey was born in Schenectady fifty-nine years ago. Twenty-four years ago he started as a florist in Walesville and nine years later removed to Rome where he has been in business ever since. The past three years he has spent in California in an effort to restore his failing health. He was a naval veteran of the Civil War.

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

The annual autumn exhibition of the Newport Horticultural Society opened Monday, September 11. Groups and specimen plants were well shown; roses were inferior in quality and quantity. Dahlias were again a prominent feature and it was noticeable that the single dahlia is rapidly gaining in favor. There was keen competition in nearly all of the dahlia classes. Mrs. T. O. Richardson, James Robertson, gardener, secured the lion's share of the prizes, being awarded first in three of the largest collections and in several of the smaller ones. Her closest competitors were H. F. Burt of Taunton and W. P. Lothrop of East Bridgewater who received several first and second prizes, respectively.

H. A. Dreer had a large exhibit of aquatics and received a silver medal for *Nymphaea Bissetti* and certificates for two other seedlings. There were few entries in fruit but the Black Hamburg and Muscat grapes exhibited by Mrs. T. O. Richardson were especially fine.

The judges were Andrew S. Meikle, Richard Gardner and Alexander MacLellan. For baskets and table decorations Mrs. Hamilton F. Webster and Miss Edith Wetmore.

LIST OF AWARDS.

Group of palms and foliage plants covering 100 square feet, 1st prize, offered by W. Watts Sherman: Mrs. Robert Goelet, Colin Robertson, gardener.

Group of palms and foliage plants covering 50 square feet. 1st, James J. Van Allen, Richard Gardner, gardener; 2d, Mrs. C. M. Bell, David McIntosh, gardener.

Group of ferns. 1st, E. J. Berwind, Bruce Butterton, gardener; 2d, H. H. Rogers, Fairhaven, James Gathley, gardener, with N. Scottill and Elegantissima.

Six *Dracaenas*. 1st, Mrs. C. M. Bell; 2d, James J. Van Allen, Boyd, gardeners; 3d, James J. Van Allen. Six *Crotons*: 1st, Mrs. Robert Goelet; 2d, I. T. Burden, Donald Shepherd, gardener. Six ferns: 1st, I. T. Burden. Six *Rex* begonias: 1st, Miss Fanny Foster, Andrew Christensen, gardener. Specimen palms: 1st, Mrs. Robert Goelet; 2d, Mrs. Ozden Goelet, James J. Sullivan, gardener.

Best fancy basket of dahlias. Perry Belmont, John Marshall, gardener. Basket of dahlias, open to gardeners, assistants. 1st, Samuel Williams, assistant to John Marshall; 2d, William Austin.

Table decoration of dahlias. 1st, Gibson Brothers; 2d, Perry Belmont; 3d, W. S. Wells. A. S. Meikle, gardener. Table decoration of outdoor flowers exclusive of dahlias. 1st, Mrs. Robert Goelet; 2d, Alex. MacLellan; 3d, Perry Belmont.

SPECIAL AWARDS.

Henry A. Dreer, silver medal for *Nymphaea Bissetti*; Joseph Forbes, silver medal for seedling dahlia. Mrs. T. O. Richardson, silver medal for seedling decorative dahlia and bronze medal for seedling single.

NEW YORK FLORISTS' CLUB.

The series of monthly meetings of this club opened last Monday evening under rather trying conditions, a fierce rain storm having timed things to a nicety to tie up all but about thirty invincible regulars, who braved it all and were rewarded with a very jolly sociable evening, to which caterer Nugent's provender and a very fine display of hardy border flowers contributed not a little. Mr. Shaw made report for the outing committee, showing a balance on the right side of the ledger, and Mr. Nugent, for the convention transportation committee, reported a gratifying success.

The floral display made a brilliant array. There were superb phloxes, larkspurs, rudbeckias, sunflowers, dahlias, tritons, hydrangeas, and the contributors, H. A. Dreer, F. R. Elison Co., Bobbink & Atkins and H. Beaulieu, were duly recognized by the judges, under the leadership of Mr. Totty. The time was spent in listening to the recital of experiences at Washington and Baltimore, and on the way to and from the convention. In the absence of the orators, P. O'Mara and John Birnie, this duty fell to Messrs. Wallace, Stewart, Pepper, Shaw, Schultz, Langjahr, Weathered, Guttman and Totty, and the many rare and racy reminiscences were heartily applauded, and a vote of thanks to the Florists' Club of Washington and Gardeners' Club of Baltimore was unanimously recorded.

The exhibition at the October meeting will comprise late outdoor flowers and early chrysanthemums.

NASSAU CO. (N. Y.) HORTICULTURAL SOCIETY.

The September meeting of this society was held at the Glen Cove Greenhouses on the 6th instant with large attendance. The membership roll steadily increases. President Harrison occupied the chair. Preparations for the coming November Flower Show were pushed forward. Mr. Rickard's (of Stump & Walter Co.) prize of \$3.00 was awarded Mr. James Hallaway, gardener to the Pratt Estate, for gladioli. The same gentleman has generously given a similar prize for the twelve best carnations arranged for effect for the October meeting, while his brother, of equal fame, has promised a prize of \$2.00 for the best vase of dahlias arranged for effect.

Mr. Hallaway's collection of apples, peaches, and plums looked exceedingly tempting. He also showed a branch of *Chionanthus virginica*, fringe-tree, in fruit. Mr. Chas. Lenker had a beautiful assortment of choice outdoor grown roses, dahlias, hydrangeas, and hardy perennial phlox; Mr. Mense, Glen Cove, exhibited charming tea roses and a vase of delphiniums. John F. Johnston brought cactus dahlias (Countess of Londale) and Mrs. McIntosh and a collection of seed cones of pines, firs, and spruces.

JOHN F. JOHNSTON.

The dahlia exhibition of the New London Horticultural Society has been postponed until September 16.

MONTREAL HORTICULTURAL SOCIETY.

The annual exhibition of this society was held in Windsor Hall on September 6 and 7. It was opened by President ex-Mayor Wilson-Smith, in the absence of the Premier, Hon. L. Gouin. The judges were as follows: Plants: J. Langford, T. Pewtress. Cut blooms: J. Bennett, G. A. Robinson. Vegetables: J. Eddy, J. Walsh. Fruit: J. Robson, W. Ross.

The principal prize winners were: J. C. Smith, gardener to Sir Wm. Van Horne; George Buddo, gardener to Lord Strathcona; W. H. Wiltshire, gardener to R. B. Angus; Jno. Dunbar, gardener to Sir H. M. Allan; George Trussell, gardener to Mrs. H. R. Molson; J. C. Eddy, gardener to Haig Sims; H. H. Mayer, gardener to Senator MacKay; C. A. Smith, gardener to T. A. Davies; S. Ward, gardener to Jas. Ross; I. Moran, gardener to Cote de Neige College; R. Jack & Son, R. W. Sheppard, Wm. Ewing & Co.

Among the amateurs the prizes were awarded to T. Grimsdale, Outremont; G. Wooley, T. J. Church and F. S. Watson, Lachine; John Stewart, John Smith, Westmont; J. B. Sparrow, Montreal. The prizes were distributed on Thursday evening by the Misses Wilson-Smith.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The fall session of the Gardeners' and Florists' Club of Boston opens on Tuesday evening, September 19, at Horticultural Hall. The coming meeting promises to be a memorable one in several respects. An attendance of 100 members is confidently expected and a very large number of applications for membership will be presented.

There will be interesting vacation experience talks from a number of members, which will include things seen and heard in Europe and at the recent S. A. F. and O. H. convention in Washington. There will be interesting exhibits, music, refreshments and other attractions. A cordial invitation is extended to all florists and gardeners to be present and see how club meetings are conducted. A membership of 400 ere Dec. 31 is now practically assured, and the aim of the club is to be the strongest and best in every way of its kind in America.

W. N. CRAIG, Secretary.

KENTUCKY SOCIETY OF FLORISTS.

The Kentucky Society of Florists held its monthly meeting September 5 at Riverview Park, the attendance being good. The Masonic Hall was selected for the show, the dates being November 7, 8, 9, 10 and 11. The premium list was ordered printed. A bowling club consisting of about fifteen was organized and the interest taken was very encouraging. Several new members were accepted. Supper was in order.

MILWAUKEE FLORIST CLUB.

The regular meeting of the Milwaukee Florist Club was held on Tuesday,

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Sept. 5. The action of the executive committee in accepting the proposition of Gimbel Bros. for the entire sixth floor for the fall flower show was ratified by the club. The indications are now that the show will be a most successful one, as quite a few entries have already been sent in to the committee. Those that are interested should write to C. C. Polworth, P. O. Box 775, for premium lists.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the meeting of this society on the evening of September 5, there was a good display of dahlias including a number of promising seedlings raised by a local grower.

NOTES.

The Amateur Horticultural Society of Springfield, Mass., will hold its dahlia show on September 19 and 20.

The dahlia show and autumn exhibition of the American Institute of the City of New York is announced for September 20 and 21.

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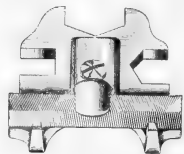
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" Extra,	15.00 to 20.00	12.50 to 15.00	15.00 to 20.00	8.00 to 10.00
" Lower grades,	10.00 to 15.00	8.00 to 10.00	10.00 to 12.50	6.00 to 8.00
Bride & Maid, Fan, & Sp.	2.00 to 8.00	3.00 to 6.00	4.00 to 8.00	1.00 to 2.00
" Extra,	5.00 to 6.00	..... to 4.00	..... to 4.00	6.00 to 6.00
" No. 1 and Lower gr.	3.00 to 4.00	2.00 to 3.00	5.00 to 6.00	3.00 to 4.00
Liberty, Fancy & Special,	1.00 to 2.50	2.00 to 3.00	2.00 to 4.00	.50 to 2.00
" Ordinary,	2.00 to 5.00 to 4.00	5.00 to 10.00	3.00 to 6.00
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" Ordinary,	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	.25 to 2.00
CARNATIONS				
Fancy Class,	1.50 to 2.00	1.50 to 2.00 to 2.00 to 2.00
General Class and Lower grades, ..	.50 to 1.00	1.00 to 1.50	1.50 to 2.00	.75 to 1.50
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Cattleyas, to 50.00 to 50.00 to 50.00 to 50.00
Lily of the Valley,	2.00 to 4.00 to 3.00	3.00 to 4.00	2.00 to 4.00
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Sweet Peas, to 2.00 to 2.00 to 2.00 to 2.00
Gladoli,	2.00 to 4.00 to 2.00	2.00 to 3.00	2.00 to 4.00
Dahlias,	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	.50 to 1.00
Adiantum Cuneatum, .....	..... to .50	.75 to 1.00	..... to .75	.75 to 1.00
" Crowneum, .....	..... to 1.00	..... to 1.25	..... to 1.00	..... to 1.25
Smilax,	10.00 to 12.00	12.50 to 15.00	10.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings,	15.00 to 35.00	25.00 to 50.00	25.00 to 50.00	50.00 to 50.00
" Sprenger, bunches,	10.00 to 25.00	25.00 to 50.00	25.00 to 50.00	20.00 to 35.00

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Flower Market Reports.

BOSTON The opening of the new Henry Siegel dry-goods store the first of this week

absorbed a good many flowers in decorative work. The vast building is very lavishly decorated with palms, flowers and green goods. Some very large and showy floral designs are among the decorations. The cold weather has had a marked effect upon the market, but prices remain about the same. Carnations are beginning to come in. The flowers are good, although short stemmed as yet, and the plants indicate a healthy condition and promise well. Annual Beauties continue in good supply and demand.

MARKET conditions **BUFFALO.** show some improvement since the beginning of the month. Tea roses, lily of the valley and Beauties of good quality are selling fairly well; asters and gladioli are still abundant but are moving better than on previous week. The demand for green goods is increasing, while lilies are on the quiet list.

CHICAGO With the exception of one or two days, business has been very quiet the past week. Roses in general have increased in quantity and quality, better prices prevailing for choice stock. California violets have made their initial appearance of the season. However small, they are unusually fragrant, and bring one's thoughts to hopes of early development. Carnations are very fair, but show little preference. Ordinary asters are still a glut on the market. The best grade brings a fair price and sells readily. Outdoor stuff is still in good supply, but from present appearances the dahlia crop will fall far below last year. Green goods are in abundance, sales fair, Harrisii very good quality and a ready seller.

CLEVELAND The market is beginning to show signs of revival. The cooler weather is to some extent responsible for the better stock which is now on the market and the return of society leaders means parties, dinners, and other social events. Some splendid roses and carnations are to be seen in the various down-town stores as well as liliun rubrum, album, and auratum, and an abundance of common garden flowers. Dutch and French bulbs are arriving every day and the importers are busy unpacking their stock.

INDIANAPOLIS Prices have advanced in fancy grade of Beauties, with demand a little ahead of the supply. Cosmos, asters, dahlias, gladioli and other outdoor flowers are to be had in great quantity. There have been no good carnations as yet.

LOUISVILLE The week previous was a satisfactory one on the average. Carnations sell well, the supply being adequate, and the quality satisfactory. Good roses are abundant, and sell up to expectations. Dahlias and other seasonal stock are slightly demanded, with the exception of asters, which sell well.

NEW YORK The present makes another in the series of dull weeks in the cut flower business of the city. Not much improvement is looked for before October 1, and if it does come by that time nobody will complain. As to stock in sight, no especial change is noticeable, except that some few carnations of fair quality are coming in, roses are running a little larger in size, asters are at their zenith, likewise dahlias, and sweet peas are about finished. In orchids, the variety is increased by the first Dendrobium Phalaenopsis and oncidiums, fine spikes of the latter, as well as some handsome Dendrobium formosungiganteum being on exhibition daily in McManus' window. D. Phalaenopsis brings from \$7 to \$8 per 100 flowers, oncidiums from 75 cents upward per spray, and D. formosungiganteum \$25 to \$40 per hundred. A good box of white orchids can now be made up at any time for wedding or funeral requirements.

PHILADELPHIA The improvement in the market noted in our last week's issue continued all along the line. Business was brisker and crops shortened up considerably, which stiffened prices and made general trading much more satisfactory. Beauties led in the popular demand, with lily of the valley a close second. Kaiserin is still coming in strong, but does not hold the important place it did, as Brides are now much improved. Bridesmaids are getting into shape at last, and are now a good proposition both to buyer and seller. Carnations improve right along, the best so far being Enchantress, Queen, Hill, Scott and Joost. Orchids are slightly more plentiful, and orders for cattleya dendrobium, oncidium and cypripedium can be fairly well taken care of. Gardenias are showing up well, and improving both as to quantity and quality. Some surprisingly good gladioli are still coming in. Dahlias are getting towards their prime. Nymphaea is extra good; so is Katherine Duer, that lovely crimson—the finest of them all, and we are promised some fine Kriemhilde in a few days. Asters are fine yet, and show up in good shape—especially white. But outdoor subjects are beginning to take a back seat, and except for variety's sake are not in much demand. Yellow marguerites with long stems, good color and nice clean foliage, were noted as a popular item, and promise to be good for some time yet. The general tone of the market is cheerful and big business is looked forward to with great certainty.

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Roses					Carnations				
Am. Beauty, fan and sp.	19.00	to 23.00	10.00	to 20.00	Fancy Class	1.50	to 2.00	1.50	to 2.00
" extra	5.00	to 8.00	5.00	to 8.00	General Class and lower grades ..	.50	to 1.00	.50	to 1.00
" No. 1	1.00	to 5.00	1.00	to 5.00	Cattleyas	10.00	to 75.00	10.00	to 75.00
" Lower grades .....	.50	to 1.00	1.00	to 1.00	Lily of the Valley	1.00	to 3.00	1.00	to 3.00
Bride & "Maid, fan and sp.	4.00	to 6.00	4.00	to 6.00	Asiatic .....	.25	to 2.50	.25	to 2.00
" extra	2.00	to 4.00	2.00	to 4.00	Sweet Peas, bunches	1.00	to 1.00	1.00	to 1.00
" No. 1 and lower grades .....	.25	to 1.00	.25	to 1.00	Lilies	6.00	to 10.00	6.00	to 10.00
Liberty, fan and sp.	1.00	to 5.00	1.00	to 5.00	Violet .....	.75	to .50	.75	to .50
" Ordinary .....	.50	to 1.00	.50	to 1.00	Adiantum Concomit .....	.25	to .50	.25	to .50
Carnot and Kaiserin, fancy	3.00	to 5.00	3.00	to 5.00	" Crownatum	1.00	to 1.25	1.00	to 1.25
" Ordinary .....	.50	to 1.00	.50	to 1.00	Smilax	5.00	to 8.00	5.00	to 8.00
Golden Gate, Chateaux, fancy	3.00	to 5.00	3.00	to 5.00	Asparagus Pinnatus, string	30.00	to 50.00	30.00	to 50.00
" Ordinary75	to 1.00	.75	to 1.00	" Sprengeri, bunches	6.00	to 10.00	6.00	to 10.00

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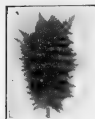
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1463 Madison Sq. New York

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ROSES				
Am. Beauty, fan, and sp.	10.00	10.00	20.00	10.25
" extra.....	1.00	1.00	12.00	20.00
" No. 1.....	10.00	10.00	8.00	12.00
" Lower grades.....	3.00	10.00	3.00	6.00
Bride and Maid, fan, and sp.	10.00	10.00	5.00	10.00
" extra.....	10.00	10.00	4.00	10.00
" No. 1 and Lower of	2.00	10.00	1.00	4.00
Liberty, fan, and sp.	10.00	10.00	1.00	8.00
" Ordinary.....	10.00	10.00	2.00	10.00
Carnot and Kaiser, Fancy.....	10.00	10.00	1.00	2.00
" Ordinary.....	10.00	2.00	1.00	1.00
Golden Gate, Chateaux, Fancy.....	10.00	1.00	4.00	5.00
" Ordinary.....	10.00	2.00	1.00	3.00
CARNATIONS				
Fancy Class.....	10.00	10.00	10.00	10.00
General Class.....	10.00	2.00	1.00	1.00
MISCELLANEOUS				
Cattleyas.....	10.00	10.00	10.00	10.00
Lily of the Valley.....	10.00	10.00	1.00	4.00
" Sweet Peas.....	10.00	10.00	1.00	2.00
" Gladioli.....	10.00	10.00	3.00	2.00
" Dahlia.....	10.00	10.00	1.00	1.00
" Adiantum Cuneatum.....	10.00	10.00	1.00	1.00
" Crownatum.....	10.00	10.00	1.00	1.00
" Smilax.....	10.00	10.00	1.00	1.00
" Asparagus Plumosus, strings.....	25.00	1.00	5.00	40.00
" " Sprengeri, bunches.....	10.00	25.00	1.00	25.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

List of Advertisers

Page	Page
Baker Wm. J. 294	McKellar Charles W. 304
Baker & Co. 294	McKellar W. E. 304
Barrows H. H. & Son. 293	McManus Jas. 306
Bayersdorfer H. & Co. 293	Metropolitan Material
Blick, Chas. 295	..... 312
Boas W. J. & Co. 295	Michell H. F. 294
Boston Florist Letter	Michigan Cut Flower
..... 305	..... Exchange. 307
Bonnot Bros. 307	Milling Charles. 307
Boston Florist Letter	Miwang Frank. 306
..... 305	Miller O. A. 293
Breck Joseph & Sons 294	Moninger J. M. 311
Breitmeier's J. Sons 305	Mt. Hissarlik Nurser-
Budling J. A. 304	..... 292
Burnham Hichings	Murdoch J. B. 307
Pierston Co. 312	..... 307
Burpee W. A. & Co. 294	Niessen Leo. Co. 290-304
Chicago House Wreck-	Peacock L. K. 290
ing Co. 312	Pennock Samuel 304
Chicago Carnation	Perkins John 307
..... 290	Phila. Cut Flower Co. 305
Conke G. H. 305	Pierston F. R. Co. 290
Cooldige Bros. 292	Pittsburg Cut Flower
Cottage Gardens. 290-303	..... Co. 290
DeNijs Bros. 303	Pye R. C. 290
Duiger Wm. 307	Rawson W. W. & Co. 294
Deer H. A. 293-294-311	Raynor John L. 306
Elliott Wm. & Son. 292-303	Reed & Keller. 305
Engelmann R. & Son 292	Rennick Peter. 304
Engelmann R. 312	Robinson H. M. &
Ernest W. H. 312	Co. 307
Farquhar R. & J. &	Rocher August & Son. 292
Co. 294	Sander & Son. 293
Fletcher F. W. 292	Schallo Lumber Co. 312
Forest Nursery &	Seelay John A. 312
Seed Co. 292	Scott John. 293
Franklin Davis Nur-	Seymour & McDonald. 311
ery Co. 292	Sharp, Partridge & Co. 311
Fromow W. S. 292	Sheridan W. F. 306
Galloway S. J. 293	Sievers J. H. & Co. 290
Ghormley Wm. 306	Siggers E. G. 311
Grey T. J. & Co. 294	Situations & Wants. 310
Gude A. & Bro. 294	Slidisky S. 290
Gurney Heater Mfg.	Stearns A. T. Lumber
Co. 311	Co. 312
Gutman Alex. J. 306	Sutherland Geo. A.
	Co. 307
	Suzuki & Iida. 292
	Sylvester H. H. 311
	Thomas W. H. 292
	Thompson J. D. Co. 290
	Thorburn J. B. & Co. 294
	Traudny & Schenck. 307
	Troy, J. H. 292
	Vaughan and Sperry. 294
	Vaughan's Seed Store. 294
	Walsh M. H. 292
	Ward Ralph M. Co. 294
	Watson G. C. 292-303
	Weber H. & Son. 305
	Weber H. & Son. 305
	Weich Bros. 304
	Weiland & Kisch. 304
	Wetor Bros. 304
	Winterich E. F. 304
	Yalaha Conservatories. 292
	Young John. 307
	Young & Nugent. 306
	Young Thos. Jr. 306

Buyers' Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line.
Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.

For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.

For page see List of Advertisers.

ARACARIAS, ASPARAGUS, FERNS AND DECORATIVE PLANTS.

H. A. BREEH, 714 Chestnut St., Philadelphia, Pa.

For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.

For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.

For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.

French and Dutch Bulbs.

For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.

Bermuda Grown Harrisil and Freesias.

For page see List of Advertisers.

De Nijis Bros., Hillegom-Holland.

For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

For page see List of Advertisers.

CARNATIONS.

Chicago Carnation Co., Joliet, Ill.

Field Grown.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.

Hannah Hobart.

For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.

Leo Niessen, 1217 Arch St., Philadelphia.

Carnation Plants.

For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.

My Maryland, Jessica.

For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.

My Maryland, Jessica.

For page see List of Advertisers.

Backer & Co., Billerica, Mass.

Field Grown.

For page see List of Advertisers.

F. R. Pierson Co.,

Tarrytown-on-Hudson, N. Y.

Carnation, Variegated Lawson.

For page see List of Advertisers.

August Gaedcke & Co., Nashua, N. H.

Prosperity Carnations.

Poehmann Bros. Co., Morton Grove, Ill.

Prosperity Carnations.

CELERY PLANTS.

Cooldige Bros., So. Sudbury, Mass.

For page see List of Advertisers.

R. Kilbourn, Clinton, N. Y.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.

For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Deddane, O.

For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.

For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.

For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.

For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.

Nephrolepis Barrowsil.

For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.

Sterilized Sheep Manure.

For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.

Thomson's manures.

FIELD-GROWN VIOLETS.

R. Engelmann & Son, Pittsfield, Mass.

For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.

For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.

For page see List of Advertisers.

The Kervin Co., 20 W. 27th St., N. Y.

Decorative Evergreens.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.

For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.

For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot

Aves., Detroit, Mich.

For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.

For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.

For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

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Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.
Wm. J. Bos & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

Rees & Compere, Long Beach, Cal.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.**RIAL.**

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.

20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.
Fancy Ferns.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

J. D. Carmody, Evansville, Ind.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

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W. H. Thomas, Convent Sta., Morris
Co., N. J.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia.
For page see List of Advertisers.

LILY BULBS.

Ralph M. Ward & Co., 12 W. Broadway,
New York.
Bermuda Harlequin Bulbs.
For page see List of Advertisers.

A. T. Boddington, New York.
Cold Storage Lilies.
For page see List of Advertisers.

LILY BULBS.—Continued.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.
J. M. Thorburn & Co., New York.
For page see List of Advertisers.
Vaughan's Seed Store, Chicago and
New York.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya, Scroederiae.
For page see List of Advertisers.
Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.
O. A. Miller, 24 Clinton St., Newark, N. J.
Cypripedium Longifolium and Seduni.
For page see List of Advertisers.

PAEONIES.

George Hoffa, S. Weymouth, Mass.
For page see List of Advertisers.
Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEACH PITTS.

Franklin Davis Nursery Co.,
Baltimore, Md.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.
Thomas Young, Jr., New York.
For page see List of Advertisers.
Fred C. Weber, 4323 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Harry Roses, H. T. Roses and Ramblers.
For page see List of Advertisers.
August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.
For page see List of Advertisers.
Puehmann Bros. Co., Morton Grove, Ill.
Young Roses.
Benj. Dorrance, Dorrancon, Pa.
Killarney and Richmond.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
For page see List of Advertisers.
Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.
Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

SEEDS.—Continued.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.
J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Henry F. Mitchell, 1015 Market St.,
Philadelphia, Pa.
New crop of Cyclamen Seed.
Mitchell's Grand Strain.
For page see List of Advertisers.

Ant. C. Zvolanek, Round Brook, N. J.
New crop Sweet Pea Christmas.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

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STEAM TRAP.

E. Hippard, Youngstown, O.

VENTILATING APPARATUS.
Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

J. D. Carmody, Evansville, Ind.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.
Boston.

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland & Co., 34 Hawley
St., Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.
For page see List of Advertisers.

Wm. F. Kestling, 383-87 Ellicott St., Buf-
falo, N. Y.

Chicago.
For page see List of Advertisers.

J. A. Budington, 37 Randolph St., Chicago.
E. H. Hunt, 1678 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reibner, 51 Wabash Ave., Chicago.
A. L. Randall, Co., 21 Randolph St., Chicago.
Weiland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
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Ave., Chicago.

Cincinnati.
Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 129 E. 3d St.

Detroit.
For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
Miami Av.

New York.
For page see List of Advertisers.

Bonnot Bros., 55-57 West 26th St., New
York.

For Bros., 48 West 28th St., New York.
Wm. Gormley, 67 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
Jas. A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.
Julius C. Horan, 55 West 30th St., New York.
James McGowan, 50 W. 28th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 20th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traudny & Schenck, 44 W. 28th St., New
York.

Philadelphia.
For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

W. E. McKissick, 3614 Filbert St., Phila-
delphia, Pa.

Leo Nielsen, Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phil. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.
For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

ASPARAGUS PL. NANUS AND SMILAX.

R. Kilbourn, Clinton, N. Y.
For page see List of Advertisers.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

CARNATIONS.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

CATALOGUE OF HOLLAND BULBS AND ROOTS.

R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.

FERNS AND POINSETTIAS.

G. C. Watson, Philadelphia.
For page see List of Advertisers.

LILIUM HARRISII.

W. F. Kasting, Buffalo, N. Y.
For page see List of Advertisers.

MYRTLE.

S. J. Galloway, Eaton, Ohio.
For page see List of Advertisers.

CYPRIPEDIUM FOR EXCHANGE.

O. A. Miller, 21 Clinton St., Newark, N. J.
For page see List of Advertisers.

PAEONIES.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

WHOLESALE FLORIST.

John Young, 51 W. 28th St., New York.
For page see List of Advertisers.

GREENHOUSES BUILDING AND PROJECTED.

Gorham, Me.—N. W. Hannaford, carnation house erected and violet house projected for next spring.

Byone Bros., Williamsville, N. Y.—One house.

Brooklyn, N. Y.—Parkville Nurseries, one house.

Auburn, Me.—C. E. Shackley, one house.

Franklin, Mass.—Walter Slade, one house, 20x75.

The King Construction Company of Tonawanda, N. Y., and Toronto, Ont., have recently contracted to supply their iron frame greenhouse construction to the following:

Amsterdam, N. Y.—John C. Hatcher, three houses, each 16x200.

Buffalo, N. Y.—A. J. Reichert, two houses, each 19x96.

Buffalo, N. Y.—D. Newlands & Co., one house 21x58, and one 10x95.

Belleville, Ont.—J. Givens, one house, 11x37.

Bloomsburg, Pa.—Davis Bros. Co., one house, 10x225, one 18x225.

Chanute, Kans.—James Truitt & Sons, two houses, each 19x70.

Darien, N. Y.—C. D. Cartwright, one house, 14x50.

Lockport, N. Y.—Thomas Mansfield, two houses, each 16x70.

Penetanguishene, Ont.—Ontario Government Asylum, one house, 21-3-4x100.

Toronto, Ont.—J. H. Dunlop, cross house, 17x144, for new range.

Toronto, Ont.—W. Beardmore, one house, 20x80.

Williamsville, N. Y.—Byrne Bros., one house, 18x30.

Woodstock, Ont.—L. Dickerson, two houses, each 24x100.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual autumn exhibition of this society opened at noon on Sept. 14. There is a large showing of dahlias, which for lateness of the season, is remarkably good, especially in the French or show type, while the newer cactus varieties are also well represented. A. E. Johnson of Brockton shows a collection of over 50 of his own seedlings which display a great variety of form and color and in many ways an improvement over existing types. The Botanic Garden of Cambridge, R. Cameron, gardener, and the Blue Hill Nurseries enter conspicuous vases of herbaceous plants, among which are Heleniums, Silphiums, Helianthus and Rudbeckias. In the Blue Hill collection was a magnificent vase of *Kniphofia Pfitzerii*.

A most interesting exhibit of fruit-bearing shrubs from the City of Boston Park Department filled two large tables at the end of this room and attracted much attention. *Viburnum Wrightii*, *Viburnum opulus*, *Hippophae rhamnoides*, *Celastrus paniculata*, and *Frax* *sensiflora* were also conspicuous. Mr. Jackson Dawson, of the Arnold Arboretum, had a most interesting exhibit of economic fruit-bearing plants including the original grapevine *Vitis Vinifera*, the native European grape, and a half dozen varieties of American grapes; 26 species of wild pears with fruit, and over 60 species of wild apples from all parts of the world. This made a most interesting addition to the ordinary line of exhibits in such fruits.

S. H. Warren of Weston exhibited his ever-bearing strawberry *Pan-American*.

T. W. Head exhibited magnificent bunches of Black Hamburg, Muscat of Alexandria and Gross Colmar grapes.

On the right of the large hall is a magnificent group of foliage plants from the Botanic Garden of Harvard College. For variety and fine decorative effect it is perhaps the finest group of such plants ever brought before this society and the arrangement is pleasing and effective. On the opposite side Mr. Edward McMullen, of the well-known florist, had a group of palms, bays, ferns and oranges, artistically arranged.

Julius Rochrs Co. of Rutherford, N. J., sent a group of foliage plants including the new *Ficus panduratifolia* *Parcelli*, *Alpinia Sandera*, numerous crotons, palms and ferns.

A. F. Estabrook sent a magnificent group of *Adiantums*, which received first prize.

W. W. Rawson & Co. exhibited *Impatiens Holstii*. H. H. Barrows & Son their new fern *Nephrolepis Whitmani*, which shows a more finely pinnate frond than its parent, N. Barrowsii. Fine displays of filmy ferns were made by Mrs. J. L. Gardner, Botanic Garden of Cambridge, and Mesdames Converse and Leland. H. A. Dreer had a magnificent collection of aquatics, including *Nymphaea Dentata Magnifica*, a cross between O'Marana and *Dentata*, *Nymphaea Bisseti*, *Victoria Tricolor*, an improvement on the ordinary *Amorion lily*, and one that endures more cold. Mrs. J. L. Gardner exhibited a handsome specimen of *Gloriosa superba*. The end of the hall was filled by R. and J. Farquhar & Co., with a group of their new lily, Philip-

pense, occupying the centre. The strong gardenia fragrance of this lily is noticeable as one approaches the group.

The display of vegetables and fruit was unusually large, and taxed to its utmost the room allotted to it.

BUSINESS CHANGES.

Jones & Hicks is the name of a new florist firm at Cortland, N. Y.

Vigore & Cohen is the title of a new firm at 245 Sutter Street, San Francisco.

Hicks & Crawback will move early in October to 76 Court street, Brooklyn, N. Y.

Mrs. Gertrude A. Ely has purchased the greenhouse business of H. E. Lincoln at Putnam, Conn.

Starkey & Kline is the name of a new wholesale florist firm at 52 West 29th street, New York city.

H. J. Stone of Worcester, Mass., has sold his greenhouses to Charles Brooks of Bloomingdale.

The greenhouses of the Winona Floral Co. of Winona, Minn., have been purchased by Fuhlbrugge Bros.

The greenhouse and nursery property of A. B. Davis & Son, near Purcellville, Va., together with an adjoining farm, have been purchased by Frank Robey & Sons for \$34,000.

A. M. Shaw of Shaw & Steward, Bangor, Me., has sold his interest in the business to his partner, S. J. Steward.

M. Hornecker has leased the houses formerly occupied by P. Hauck on Central Ave., Orange, N. J.

Vose & Fellows, Hyde Park, Mass., have dissolved partnership. Mr. Vose will retain the greenhouse and conduct the business on his own account. Mrs. L. H. Fellows will open a retail store on Fairmount avenue, Hyde Park.

CATALOGUES RECEIVED.

Hoopes, Brother & Thomas, West Chester, Pa. Autumn Trade List of fruit and ornamental trees and border plants.

Dingee & Conard Co., West Grove, Pa. New Guide to Rose Culture. Title page bears a striking colored picture of geranium "Telegraph."

Bay State Nurseries, North Arlington, Mass.—Ornamental trees and shrubs and herbaceous plants. A very complete list of desirable garden material.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

WANTS.

FOR SALE OR TO LET—2 greenhouses, about 8000 sq. ft., in good running order; about 1 acre of land, in Dorchester, Boston, Mass. For particulars, address Thomas Stork, 251 Minot street, Dorchester, Mass.

SITUATION IN RETAIL STORE—Lady wishes situation, preferably in eastern city. Good experience and competent to take charge of floral department. Character and ability fully vouched for by past employers. Address Business, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—Long experience in outdoor gardening and thorough knowledge of laying out large estates and general landscape work. Address K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"PECKY CYPRESS"**

Everything in PINE and HETLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Werd St. & Hawthorn, - - - CHICAGO
Tel. North 1626 and 1627

THE HOLLY CASTLE

Electric Circulator

THE SENSATION OF THE S. A. F. EXHIBITION

Insures independent hot water circulation. Can be attached to any system of piping at slight expense

The greatest boon in many years for the greenhouse man

Send for Descriptive Circular

HOLLY CASTLE CO., Engineers, 49 FEDERAL ST., BOSTON.

GLASS

FACTORIES ARE NOW CLOSED for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

H. H. SYLVESTER

Mason and Builder

818 Tremont Building, Boston, Mass.

GREENHOUSE Mason Work a Specialty



We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

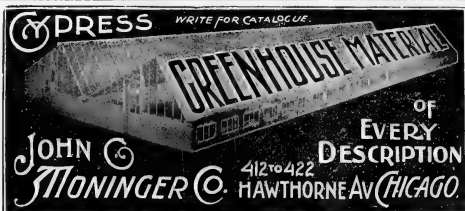
For Sale

2000 lights glass, 16x24, boxed; No. 10 Furman boiler; piping and frames of two large greenhouses, newly new, and all in good order. Very low price to sell quickly.

SEYMOUR & MACDONALD

SOLE DEALERS

South Lancaster, Mass.



In writing advertisers, mention Horticulture

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 131 FIFTH AVE

74 FRANKLIN ST. BOSTON

ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON.

Illustrators and Designers

PATENTS

CAVEATS, TRADE MARKS, COPYRIGHTS AND DESIGNS.

Send your business direct to Wash. agent, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Attorney's fee not due until patent is secured. PERSONAL ATTENTION GIVEN—12 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc. sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$1. a year.

E. G. SIGGERS, 918 F St., N. W., WASHINGTON, D. C.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,

BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
SCOLLAY HOT WATER
and STEAM BOILERS

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

Standard
Flower .. **POTS**

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

In writing advertisers, mention Horticulture

Greenhouse Material

Ask for our Special Catalogue No. 534 describing Boiler Tubes, Boilers, Pipes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

What the Trade says about the
Peerless Glass Repair Clamp.

"Our foreman thinks very highly indeed of your
PEERLESS GLASS REPAIR CLAMP."

THE E. G. HUBBARD CO.,
Richmond, Ind.

For a sample address A. KLOKNER,

Wauwatosa, Wis.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John O. Esler, Saddle River, N. J.



On the Inside

The arrangement of Palm Houses seems to be pretty much alike.

We have striven to convince our friends that formal banking and bunched effects are not necessary or really to the good of the plants. Our plans (made always with the highest plant results in mind) have taken care of this splendidly, and now comes a waking up—and with it—our reward.

These two cuts carry their own arguments.

Send for Catalog H—G.

BURNHAM HITCHINGS PIERSON CO.

GREENHOUSE MANUFACTURERS AND BUILDERS

1133 Broadway, Cor. 26 St., New York.

Boston Branch, 819 Tremont Bldg.



HORTICULTURE

Vol. II.

SEPTEMBER 23, 1905

No. 13



VIEW IN TEMPERATE PALM HOUSE, HORTICULTURAL HALL, PHILADELPHIA

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ADVERTISE YOUR FALL BUSINESS

Horticulture's Readers Comprise the Most Intelligent and Progressive Class. Their Trade is the Kind You Want

Offer the Right Goods in the Right Way in the Columns of Horticulture and New Business will Follow

Here are a Few Unsolicited Testimonials From Those Who Have Tried It

IT DOES THE SELLING.

Stop our ad. in Horticulture for Prosperity carnation; all sold. Your paper certainly does the selling.

AUGUST GAEDEKE & CO.

ENTIRELY SOLD OUT.

Discontinue our ad. for thermometers after this week's edition. Entirely sold out and unable to procure more.

Yours respectfully,
WM. ELLIOTT & SONS.

ENTIRELY SOLD OUT.

Nahant, Mass., Dec. 13, 1905.
Horticulture Publishing Co.,
11 Hamilton Place, Boston.

Gentlemen:—Please discontinue my ad. in Horticulture, as I am entirely sold out and have nothing more to offer at present. Just as soon as I have anything to advertise you shall hear from me.

Yours truly,

T. ROLAND.

RESULTS EMINENTLY SATISFACTORY.

It is a pleasure for us to say that the results from our advertising in Horticulture have been eminently satisfactory, not only in the number of inquiries received, but in direct sales as well. We congratulate you upon the strong showing you are making.

Very truly,

THE DINGEE & CONARD CO.
West Grove, Pa.

MOST SATISFACTORY RESULTS.

Randolph, Vt., March 20, 1905.
Editor Horticulture, Boston, Mass.

Dear Sir:—It gives me pleasure to state that the advertisement I placed in your paper has given most satisfactory results. Would further add that Horticulture is a credit to the publisher and is deserving of a grand effort on the part of those in the florists' profession (and especially those of the New England States) to use its columns to help place it in the leading position where it should be (if, indeed, it is not already there).

Wishing you continued success, I am,

Yours very truly,

H. M. TOTMAN.

ALL SOLD OUT.

All sold out. Cancel ad. and send bill.—J. E. Felthousen, Schenectady, N. Y.

ENTIRELY SOLD OUT.

Kindly discontinue our advertisement after the issue of this week; we are entirely sold out of Wellesley plants.—Waban Rose Conservatories.

LARGE NUMBER OF REPLIES.

Dear Sirs:—Please discontinue my advertisement, as I have sold out all the stock. The large number of replies I received testifies to the value of your paper as an advertising medium.

Yours,

F. E. PALMER.

RETURNS VERY SATISFACTORY.

To Horticulture:—As we have taken orders for about all our salable stock, we shall have to stop our ad. for the present, otherwise we certainly should have kept it going. Our returns through Horticulture are very satisfactory, and we shall patronize same on a bigger scale when we start again.

Very truly yours,

POAT BROS.

Etttrick, Va.

AMPLELY JUSTIFIES THE EXPENDITURE.

Boston, Mass., Aug. 8, 1905.
Wm. J. Stewart, Editor Horticulture:
Dear Sir:—We wish to throw two bouquets. One to you, the other to ourselves. We sincerely congratulate you upon the wide and valuable circulation Horticulture must have, judging solely by the inquiries we have received as well as the orders placed through our advertisement. We find it reaches far and beyond what we surmised (New England). Our letter list shows that its advertising columns extend to and beyond the Great Lakes. Therefore, we throw you the first bouquet, and the second one we feel justified in casting our way, that we evidenced good judgment in placing the circular ad. with you. What we have already received amply justifies the expenditure. We remain, very truly yours,

WILLIAM W. CASTLE,

For Holly-Castle Co.,

FOR FIVE YEARS.

Enclosed please find \$5 and book me for Horticulture for five years. I like it.—T. M.

HIGHLY SATISFACTORY.

Please repeat the enclosed ad. until further notice. It is highly satisfactory indeed.—H. A. S.

ALL SOLD OUT.

I am all sold out of stock as advertised, so will say that the two insertions will be sufficient at present.

Yours,

J. W. HOWARD.

Somerville, Mass.

"WE COVER THE COUNTRY."

Thanks to Horticulture, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico and Cuba, which goes far to prove the value of Horticulture as an advertising medium. We are very pleased with the results of our advertising in Horticulture, and wish every success to the paper and editor.

Respectfully,

A. LEUTHY & CO.

THE HIGHEST NOTE.

Horticulture Publishing Co.:—

The remark was made to me a short time ago, that the horticultural interests of this country had never yet shown that they could either produce or would support a high class trade paper. Your efforts to bring out the possibilities in this direction doubtless strike the highest note that has yet been reached.

Horticulture is bringing to the front again the devotion, enterprise and achievement which were either lying dormant or were being neglected. This is not only to the credit of Boston, but to the advancement of horticultural interests in their widest import and application.

Feeling quite sure that as your motives are apprehended, they will appeal to all classes of the craft, and draw out their full support, I remain,

Yours very truly,

H.

HORTICULTURE

VOL II

SEPTEMBER 23, 1905

NO. 13

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

SUBSCRIPTION PRICE

ONE YEAR, IN ADVANCE	\$1.00
TO FOREIGN COUNTRIES	2.00
SINGLE COPIES . . . . .	.05

ADVERTISING RATES, NET

PER INCH, 3 COLS. TO PAGE . . .	\$.90
FULL PAGE	24.00
HALF PAGE	12.00
QUARTER PAGE	6.00

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Entered as second-class matter December 8, 1904, at the Post Office at Boston, Mass., under the Act of Congress of March 3, 1879.

CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Palm House, Horticultural Hall, Philadelphia.		NEWS OF THE CLUBS AND SOCIETIES—Continued.	
ECHOES FROM ENGLAND—Illustrated—Harry H. Thomas.....	319	Massachusetts Horticultural Society.....	324
FREAKS—Geo. Moore.....	319	California State Floral Society.....	324
WINTER ASPARAGUS—R. L. Adams.....	320	American Pomological Society.....	325
FRESIAS—K. Finlayson.....	321	Philadelphia Florists Among the Dahlias.....	325
BRITISH HORTICULTURISTS—Illustration.....	321	Society of Iowa Florists.....	325
EDITORIAL	322	EARLY HISTORY OF INSECTICIDES—C. N. Ruedlinger	325
GNAPHALUM LEONTOPODIUM (Edelweiss)—Illustrated	323	CUT FLOWER MARKET REPORTS	
NEWS OF THE CLUBS AND SOCIETIES		Boston, Buffalo, Chicago, Louisville, New York, Philadelphia, Washington.....	329
Gardeners' and Florists' Club of Boston.....	324	SEED TRADE TOPICS.....	334
New Bedford Horticultural Society.....	324	MISCELLANEOUS	
National Chrysanthemum Society of England. . . .	324	Control of Regeneration in Plant Life.....	323
Morris Co. (N. J.) Gardeners' and Florists' Society	324	News Notes.....	323
Haddonfield Dahlia Show.....	324	Personal	323
Horticultural Society of the Pacific Coast....	324	Obituary	322
		Mushrooms and Toadstools.....	326
		An Interesting Episode—G. C. W.....	334
		Catalogues Received.....	334
		List of Patents.....	334
		Greenhouses Building or Projected.....	334

LOCAL REPRESENTATIVES

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
 CHICAGO, ILL.—C. A. Klunder, 33 State St.
 CLEVELAND, O.—A. L. Hutchins, 38 Plymouth St.
 CINCINNATI, O.—Albert J. Gray, 129 E. Third St.
 INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illinois St.
 LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
 MONTREAL—William Cooper, 588 St. Paul St.

NEWPORT, R. I.—David McIntosh, Ledge Road.
 PHILADELPHIA, PA.—George C. Watson, 1614 Ludlow St.
 SAN FRANCISCO, CAL.—Luther Monnette, 1100 Van Ness Av.
 WASHINGTON, D. C.—Z. D. Blackstone, 14th and H Streets, N. W.

Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. If our own retail sale, as any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the flowers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers, its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will outbloom that popular variety, Mrs. M. A. Patten three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations and are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

Fieldgrown plants from ground,
\$15.00 per 100.

F. R. PIERSON CO.
Tarrytown-on-Hudson, N. Y.

Lawson Carnation		Gov. Walcott.....	\$6.00
Plants	\$4.50	Indianapolis	6.00
Queen Louise.....	3.50 & 5.00	Prosperity	6.00
Enchantress	5.50	Judge Hinsdale....	6.00
Queen	4.00	Harlowarden	6.00
Floriana	6.00	Octoroon	6.00
Flamingo... 5.00 & 6.00		Golden Beauty.....	7.00
Vesper	5.00	Nelson Fisher.....	7.00

Pansy Plants: Giant White, Blue and Yellow, 2.50 per 1000

Samuel S. Pennock
The WHOLESALE FLORIST OF PHILA.
1612-14-16-18 Ludlow Street.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers whole-sale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 7, 1905.) Orders for rooted cuttings, booked now and fill in rotation beginning January 1, 1906 at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.
1251 Chestnut Street SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

My Maryland
pure white

JESSICA

red and white variegated

Two great carnations for 1906.
\$2.50 per doz., \$12 per 100
\$100 per 1000

Are you shrewd in business? Yes?
Then write us immediately concerning
these two great carnations.

The E. C. HILL CO.
RICHMOND, IND.
The H. WEBER & SONS CO.
OAKLAND, MD.

The Cottage Gardens Co.
QUEENS, N. Y.

Horticultural Specialties
ORNAMENTAL NURSERY STOCK PEONIES
CARNATIONS

C. W. Ward, Pres., J. C. Gowing, Sec'y and Treas.,
Long Distance Telephone: 91 B U C K L E.

CARNATIONS Plants from the Field

VESPER QUEEN LOUISE FLORA HILL HARLOWARDEN JOOST PROSPERITY

Prices on application State quantity you can use of each variety.

LEO NIESSEN CO., 1217 Arch St., PHILADELPHIA, PA.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.
Joliet, Ill.

ROBT. C. PYE

Carnation Grower
NYACK, N. Y.

Pansy Seedlings

The very choicest strains, mixed, \$3.00 per 100.
Separate Colors, lavender, yellow and white,
\$3.50 per 1000. CASH WITH THE ORDER.

J. CONDON, Florist,
734 Fifth Avenue, BROOKLYN, N. Y.

PAEONIES

FESTIVA MAXIMA, largest and best of all

paenies, which are the best of all.
3 1/2 eyes \$5.00 per doz. \$35.00 per 100
7 1/2 " 7.00 " 50.40 "

RICHARDSON'S RUBRA SUPERBA, lightest red, best keeper, producer and profuse.

3 1/2 eyes \$3.00 per doz. \$20.00 per 100
7 1/2 " 4.00 " 30.00 "

FRANCES ORTEGAL, very deep rich crimson. Large and extremely profuse.

3 1/2 eyes \$2.00 per doz. \$12.00 per 100
7 1/2 " 3.00 " 20.00 "

Good Varieties mixed colors, not truly named
\$1.50 per doz. \$8.00 per 100.

CHICAGO CARNATION CO., JOLIET, ILL.

DAHLIAS

ONE HUNDRED AND THIRTY ACRES.
Roots and blooms in any quantity.

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NEPHROLEPIS BARROWSII, \$25 PER 100
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\$3.00 per 100; \$25.00 per 1000.

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824 No. 24th St., PHILADELPHIA

Dreer Special Offer of Seasonable Stock

Araucaria Excelsa

6 in. pots.	12 to 14 in. high.	3 to 4 tiers.	\$.75 each.
6 "	15 to 18 "	4 "	1.00 "
7 "	18 to 20 "	4 "	1.25 "
7 "	24 to 30 "	5 "	1.50 "

The above are the best values we have ever sent out, especially the size at \$1.50 each.

Araucaria Excelsa Clauca

6 in. pots.	13 to 15 in. high.	3 tiers.	\$1.25 each.
7 "	18 to 20 "	4 "	1.75 "
7 "	20 to 24 "	4 to 5 "	2.00 "

Araucaria Robusta Compacta

6 in. pots.	10 to 12 in. high.	2 to 3 tiers.	\$1.25 each.
7 "	12 to 14 "	3 "	1.50 "
7 "	16 to 18 "	3 to 4 "	2.00 "

Asparagus Sprengeri

2 1-4 in. pots.	\$.50 per doz.	\$4.00 per 100.
3 "	.75 "	5.00 "
4 "	1.25 "	10.00 "
8 " pans.	6.00 "	" "

Asparagus Plumosus Nanus

2 1-4 in. pots.	.60 "	4.00 "
3 "	.75 "	6.00 "

Asparagus Tenuissimus

3 "	.75 "	6.00 "
4 "	1.25 "	10.00 "

Begonia Cloire de Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Begonia Light Pink Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Chrysanthemum Alexandra

The New Paris Daisy

3 "	1.25 "	10.00 "
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Dracaena Fragrans

4 "	2.50 "	20.00 "
5 "	4.00 "	30.00 "
6 "	6.00 "	50.00 "

Dracaena Massangeana

5 in. pots.	\$9.00
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" Linden

5 "	9.00
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" Terminalis

2 1-4 "	1.00	\$8.00
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Farfugium Grande

4 "	2.00	15.00
-----	------	-------

Ficus Elastica

4 "	3.00	25.00
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" " "

6 "	6.00	50.00
-----	------	-------

Nephrolepis Scottii

2 1-4 "	.75	6.00
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" " "

3 "	1.50	10.00
-----	------	-------

" " "

4 "	3.50	25.00
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" " "

5 "	6.00	50.00
-----	------	-------

" " "

6 "	9.00	75.00
-----	------	-------

" " "

8 "	15.00	
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" " "

10 "	18.00	
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" Barrowsii

3 "	3.50	25.00
-----	------	-------

" Piersoni

2 1-4 "	.75	5.00
---------	-----	------

" " " Elegantisima

2 1-4 "	3.00	25.00
---------	------	-------

" " "

4 "	6.00	50.00
-----	------	-------

Per 100. Per 1000.

Adiantum Cuneatum

2 1-4 "	\$3.00	\$25.00
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" " "

5 "	6.00	50.00
-----	------	-------

Alsophilla Australis

2 1-4 "	8.00	
---------	------	--

" " "

3 "	10.00	
-----	-------	--

Ferns in mixture for dishes

2 1-4 "	3.00	25.00
---------	------	-------

" " "

3 "	6.00	50.00
-----	------	-------

Per Doz. Per 1000.

Pandanus Veitchi, fine plants

6 "	\$12.00	
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Petunias, Dreer's Double

3 "	1.25	10.00
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For a complete list of Seasonable Stock, including Ferns, Palms, Decorative Plants, Hardy Perennials, Hardy Shrubs, Bulbs, Seeds, etc., see our New Wholesale Price List issued September 1st.

HENRY A. DREER

714 Chestnut Street, Philadelphia, Pa.

BULB CATALOGUE 1905

PICOTEE TULIPS
"MAIDEN'S BLUSH"

COPYRIGHT 1905 BY

R. & J. FARQUHAR & CO.
637 SOUTH MARKET ST.
BOSTON, MASS.

The above is a fac-simile greatly reduced in size of our Catalogue Cover for the present Autumn. We offer in this Catalogue the choicest and most complete assortment of Winter and Spring flowering bulbs and roots, coming to the United States from Holland. Copies have been mailed to customers and will be to others upon application by letter.

R. & J. FARQUHAR & CO., 6 & 7 South Market St.,
BOSTON, MASS.

Burpee's Seeds PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

The HARDY ANNUAL of the CENTURY NICOTIANA SANDERAE

Seeds in original packets, at 25¢ per packet, from seed-men by mail only to all United States.
Wholesale Agents for the United States
H. Y. A. DREER, Philadelphia, Pa.
J. M. THORBURN & CO., Cortland St., N. Y.
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In writing advertisers, mention Horticulture

FIRST QUALITY FRENCH and DUTCH BULBS

Full Bulb Price List on request.

Joseph Breck & Sons, Corp.

Seeds, Florists' Supplies, and Agricultural Hardware
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In writing advertisers, mention Horticulture

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SEEDS

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We carry in stock duplicate parts leading machines
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In writing advertisers, mention Horticulture

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Patronize our advertisers, they will treat you right

Thorburn's Bulbs

All the Holland Bulbs

Lilium Harrisii

Lilium Longiflorum

Roman Hyacinths

Paper White Narcissus, etc.

Wholesale Price List Now Ready

CYCAS REVOLUTA at \$8 per 100 lbs.

J. M. Thorburn & Co.

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NEW CROP CYCLAMEN SEED MICHELL'S GIANT STRAIN

Grown by one of the leading Cyclamen Growers in Europe, who has a world-wide reputation for this strain.

	100 Seeds.	1000 Seeds.
GIGANTEUM ALBUM, White	\$0 75	\$6 00
" ROSEUM, Pink	75	6 00
" RUBRUM, Red	75	6 00
" WHITE with Red		
Eye	75	6 00
" MIXED	60	5 00

Bulbs are now arriving. Send us your list of wants. We are headquarters. Wholesale list now ready. Shall we mail you a copy?

HENRY F. MICHELL CO.
Importers and Growers,
1018 Market St., Philadelphia, Pa.

Fall Bulbs

NOW READY FOR DELIVERY

Would be pleased to quote prices on any quantity.



W. W. Rawson & Co.
SEEDSMEN

12 and 13 Faneuil Hall Square
BOSTON, MASS.



HORSESHOE
BRAND

BULBS

and PLANTS

Ralph M. Ward & Co.
12 West Broadway New York

**HELLER'S
MICE
PROOF
SEED
CASES.**

SEND FOR
CIRCULARS

Heller & Co.
MONTCLAIR, N. J.

Echoes From England



SENECIO CLIVORUM

This is a strong growing, handsome plant newly introduced from western China by Messrs. James Veitch of Chelsea, London. It was shown finely in flower by them recently. I am able to send you a sketch of a flower, showing also the habit of the plant. The leaves are large and orbicular in form, while the rich orange-colored flowers are produced in abundance. It is a noble plant for the wild garden, where its tall stature, bold leafage and large, brilliant flowers render it extremely effective. For mass planting to produce a fine effect from a distance this new *Senecio* will prove invaluable in both park and garden. This was one of the most remarkable plants shown at the last meeting of the Royal Horticultural Society.

There were several other new and valuable plants shown, among them being *Lilium leucanthum*, a variety of *Lilium Brownii*. It was collected in central China by Mr. E. H. Wilson for Messrs. Veitch. The flowers are long and tubular, white, shaded with rose-brown. A beautiful new double lobelia called Kathleen Mallard was shown by Mr. Mallard, Hainham, Kent. The flowers are large and of brilliant purple coloring. A very fine new water lily, a rose-colored form of *Nymphaea zanzibarensis* (called *rosea*) was shown by Lord

Rothschild. The flower was immense and rose-colored with yellow base.

AN IMPORTANT PROVINCIAL FLOWER SHOW

The flower show annually held at Shrewsbury is unique in many ways, and is the finest show of its kind in the country. Thirty years ago, when it was founded the value of the prizes offered was less than £100; today no less than £1200 in cash is given away in prizes besides large numbers of medals, cups, etc. Last year the society's income was more than £4500, over £2000 being taken at the gate, and the show only lasts two days. The attendance on the second day is usually 70,000. The finest fruit in the country is to be seen at Shrewsbury: a silver cup, value 50 guineas, is offered for the best 12 bunches of grapes, besides valuable money prizes. This cup must be won three times by the same exhibitor before it becomes his property. Curiously enough one gardener has won the cup three times, but his employer, Lord Hastings, died when he had won it twice. Under the present Lord Hastings (regarded as the exhibitor) the gardener must again win the cup three times before it passes to him.

Harry H. Thomas

Freaks

Mr. Editor:—The disease so aptly diagnosed as "Burbankitis" in a recent issue, which has attacked magazine writers, and of which a few agricultural periodicals show occasionally some incipient symptoms, should be checked before it becomes epidemic. A plant-breeder is entitled to no credit for producing a freak of nature, or indeed a new variety which is not an improvement upon those already in existence. Novelties which are not superior are useless, and worse, for they are confusing and in the way. This craze for monstrosities is a hindrance to the advancement of useful research and experiment. Actual improved varieties of agricultural, pomological, or floral products are most important, not only to the producers but to the whole community, and if a person raises only one of these in his life time he is a benefactor to his race. But if he merely tries to change the natural laws by hybridizing one species with another in the hopes of obtaining the marvelous his efforts are not to be commended.

It is unfortunate that there should be more said about peculiar than about useful introductions, but the sensational takes best with a good many, and the practical is overlooked.

It is said that one of the great "wizards" of plant life is about to favor the ladies with a scentless onion. How this is to be done without depriving the bulb of its flavor is a conundrum. If both odor and flavor are eliminated we might as well have no onion.

The same argument applies to the ornamental. Monsters, for instance, are not beautiful; too large a flower

becomes vulgar and disproportionate. A Lawson carnation is large enough; one five or six inches in diameter would not be so elegant. Chrysanthemums are not so pleasing when grown on a single tall stem with a flower on the top which might be mistaken for a floral mop, as are specimen plants with graceful stems and moderate-sized flowers. It is true that the large blossoms answer admirably for large decorative work, but the smaller ones appeal more directly to aesthetic tastes.

The true success of the florist, whether he be hybridist,

grower or decorator, depends upon his ability to follow nature on natural lines, not to distort her. The sooner the reading public are educated to view the subject in this light the less likely it will be to be misled by these horticultural moulders, and the letter alike to appreciate and enjoy the results of true science.

Geo. Moore

Winter Asparagus

Florists who force vegetables as a side-issue, to utilize vacant space during dull times, should try the common garden asparagus (*Asparagus officinalis*), for which there is generally quite a demand.

For forcing, old roots, at least three years old, are dug in the fall and stored until wanted in some cool place, as a pit or cellar.

Any place where a temperature of 50-60 degrees can be maintained will serve for asparagus raising. Space under or on benches, in pits, cellars, cold or hot frames can all be used with profit. The plants occupy the ground for only about ten weeks, so that a crop can, in many cases, be grown between regular florist crops, when the space is not needed for anything else.

Planting may be done at any time. Set in sandy, extra well drained loam, placing the roots close together without crowding, six inches apart each way being sufficient for small ones. Water thoroughly. Do not force too fast—a night temperature of 50 degrees, letting it run up to 65 or 70 degrees during the day, is

high enough for the first ten days or until the plants are established. Then the house may be run with a night temperature of 55 to 60 degrees and a corresponding higher temperature during the day.

Give plenty of luke-warm water, as the asparagus is a thirsty plant, but be sure that all superfluous water will drain off readily.

If a succession is desired bring in a few plants every two or three weeks. Cutting will begin in about six weeks from setting out, and continue until the strength of the plants is exhausted. After they are through bearing the space can be reset with new roots from the storage quarters. The old ones are of no further value.

For market demanding a bleached article grow the plants entirely in the dark.

The best forcing varieties are Columbian, Conover's Colossal and Palmetto.

R. Z. Adams.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

Freesias

To have those useful bulbous South African plants in flower from the holidays on they should be already well under way. Freesias will succeed in any good garden soil, either in pots or pans. I have found seven-inch pots a very convenient size for the larger bulbs, and six-inch pots for the smaller bulbs, 12 bulbs respectively in each pot. They ought to be potted deep enough so as to have one to one and one-half inches of soil over them, for it must be remembered that the old bulbs in the process of growth are consumed and replaced by a younger growth that starts from the tops of the older ones, hence if the bulbs are not planted deep enough the younger growth will appear above ground ere the end of the season, to disadvantage of course. These instructions, however, are less applicable to those that make it a habit of purchasing new bulbs each season. If it is desired to keep over the old bulbs a little care is necessary. When the plants are through flowering they ought not, as is often done, to be consigned to any out-of-the-way place under the benches. On the contrary, they ought to occupy a place on the benches or on suspended shelves where they can be crowded tolerably close together so as not to occupy too much valuable space. The thing to be done now is to give them plenty of water at this stage and for considerable time thereafter, frequently changing the order from the plain water to stimulation of which they will stand a lot. It is after the bulbs are done flowering that the development of the

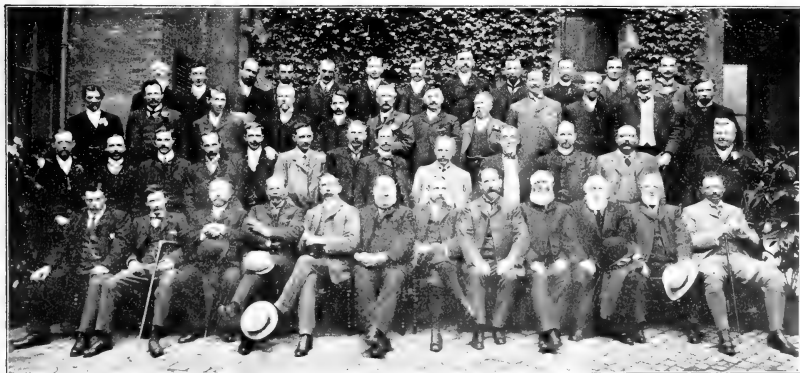
succeeding year's bulbs takes place, hence the necessity of sustaining them then.

The drying-off should be gradual and when finally accomplished should be thorough, for they are not averse to what may be termed a baking. It is needless, I take it, to say that freesia bulbs after potting should not be covered over with sand or any other material, as with hyacinths and the like bulbs, but plunged in sand or ashes to the brim of the pots or pans, and in cold frames where they can be shaded with shutters until they appear above ground. Careful watering must be attended to for considerable time after they penetrate the soil for root action will not be yet ample to warrant copious watering. They will be quite at home in the cold frames until well into fall, when they may be taken to an airy, cool greenhouse, disposed thereafter in such varying temperatures calculated to bring them in flower at the desired time. They will not stand high temperatures, however, without injuring the robustness of stem and flower. One of the few other demands they make is that of supporting their grass-like foliage gently and at the proper time.

In order to have crops in succession three weeks between each potting should be about right.

H. Finlayson

British Horticulturists Visiting the International Exhibition at Paris, May, 1905.



Front Row—W. Cocker, F. E. Dillstone, W. T. Rich, A. A. Walters, R. Adams, J. Harris, J. S. Brunton, J. M. Stewart, W. Brooks, L. A. Jones, J. Ellis, J. Smith.
 Second Row—J. Brown, W. Laxton, W. R. Clibran, J. Emerson, E. W. King, R. Findlay, W. R. Pennell, P. Griffin, L. Kershaw, H. Folland, W. Webster, R. Nobbs, C. Armstrong.
 Third Row—T. Jannoch, R. Pinches, W. F. Gunn, C. Cundy, F. A. Hinton, W. G. Williams, C. M. Cooper, D. T. Williams, W. Icton, E. Lack, I. A. Jones, H. C. Smith.
 Back Row—J. R. Trautner, R. T. Hartigan, T. Walkden, H. J. Haskins, R. Hagee, A. J. G. Challice, J. W. Cross, J. Martin, W. Johnson, T. Fenton, E. Stewart, E. J. Parsons.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Dahlias from seed

The best results with single-flowered dahlias are now obtained by treating them as annuals, sowing seed every spring. Many growers are pursuing this method and never try to save over any roots. The seed is saved from the largest and most perfect flowers and the colors and markings of the progeny are in no way inferior to the named varieties.

Protecting out-door bloom

The days have come when sheets and covers of all kinds are pressed into service on frosty nights in order to secure a few days or weeks more of garden bloom. Occasionally it pays for the effort, but more often it does not. The florist who can thus tide over a cold spell and hold his dahlias so that he can get a couple of weeks' more flowering from them will reap a good profit.

A suggestion about Clematis paniculata

A wide variance is noted in the flowering time of *Clematis paniculata*. At present writing some plants are already out of bloom; others have not yet opened a flower. Some are deliciously fragrant, some are odorous but not sweet, and still others are as devoid of perfume as a hydrangea. Again, we find a great difference in size of flower and form of panicle, some throwing long streamers of flowers, others producing flat heads of bloom. The degrees of whiteness runs from snow to cream and the foliage varies greatly in form and texture. It is rather strange that nursery men raising this clematis from seed have not yet taken advantage of the opportunities offered to break it into sections which would greatly extend its flowering period and still further advance its usefulness.

Landscape art

One result of the revived appreciation for gardens and tree adorned grounds which has developed so rapidly of late is a big crop of somewhat pedantic landscape designers whose most noticeable attribute as seen in their

work seems to be a facility of imitation. The composition and locating of groups is monotonously alike in places of widely varying aspect and there is much to suggest that the controlling impulse is in the line of stereotyped reproduction of the work of others rather than that intelligent striving for harmonious natural effects which should always be the dominating purpose in such work. There is good reason to hope, however, that out of the large number of highly-endowed and earnest young men now studying the theory and practice of landscape adornment there will come eminent masters of this noble art, fit to rank with those who have been its most honored exponents in the past.

Asters and dahlias

The tables in the wholesale establishments in the great cut flower district of New York furnish at this season impressive evidence of the remarkable strides being made in the cultivation and popularizing of two flowers—the dahlia and the China aster. The asters of the cut flower markets of today with their big loosely-built flowers and long stems show very little in common with the aster we were accustomed to see a few years ago. It is a pity that the aster growers after buying high-priced seed and working to produce good flowers should be so careless and clumsy in bunching and packing them as is evidenced by much of the stock shipped to the wholesalers. Whole wagon loads arrive in a more or less bruised condition. It doesn't pay. As for the dahlias, they should be seen to be appreciated, for no description can convey an adequate idea of the beauty of many of the later introductions in the cactus-flowered section. That they will yet be generally grown in quantity under glass for florists' uses seems inevitable. We have not yet begun to realize their decorative possibilities.

A floral sheaf

Of florists' designs none are accounted more appropriate as tokens of sympathy in bereavement than the wreath and the sheaf—the latter suggestive of a ripened life. In the ceaseless hunt for something new many contrivances have been evolved, most of them, devoid of any merit whatever, but a modification of the sheaf idea seen at Mr. Stumpp's New York store recently impressed us very favorably. It is practicable only with long-stemmed flowers such as American Beauty roses or teas of the highest grades and is adapted for the purse of a customer willing to pay a good price for something out of the ordinary. The stems of the flowers are inserted in a cone-shaped wire base such as is used to spread the base of the conventional wheat sheaf, the longest stemmed being used for the outside. A sash of broad ribbon is tied around the stems and the result is a sheaf of fresh roses which if lacking the sentiment expressed in the conventional dried wheat sheaf, yet has much to recommend it. The design may be enriched by the addition of a cluster of orchids, lily of the valley or other choice material where the ribbon is tied and it can be placed anywhere in a standing or reclining position as required.

NEWS NOTES.

Samuel B. Clark has leased the E. F. Scollay greenhouse in Templeton, Mass.

W. H. Wyman of Rockland, Mass., has recently purchased the Somers estate and will erect a new greenhouse.

W. E. Cady has leased the Phelps greenhouses at Blackington, Mass., and will stock them with carnations.

O. E. Ryther of Norwich, Conn., made a fine exhibit of evergreens and hedge plants at the county fair last week.

August Nelson of Cromwell, has been appointed head florist at the Connecticut Hospital for the Insane at Middletown, Conn.

The Boston Globe of last Sunday devoted half a page to an illustrated interview with M. H. Walsh of Woods Hole on popular rose topics.

A meeting will soon be called for the formation of a horticultural society in Orange, Mass. This move can be considered largely the results of the dahlia show held recently.

The entire stock of store and greenhouse plants in the conservatories at Mt. Kisco, N. Y., have been disposed of, and the houses will hereafter be devoted exclusively to orchids and a few roses.

Maurice A. Blake, M. A. C. 1904, assistant horticulturist at the Rhode Island experiment station, succeeds George A. Green as instructor in horticulture at the Massachusetts Agricultural College.

Sylvester Rose, son of John Rose, gardener on the country estate of N. R. Square, at Bridgeport, was struck by a recklessly driven automobile while returning from school last Tuesday, and sustained severe injuries including several broken ribs.

The display of floral tokens at the funeral of the late Mayor Collins of Boston was unprecedented. Almost every city in the State, besides the many departments of the State and city of Boston, also the various public institutions and a host of friends in public and private life.

The house and barn of Norris F. Comley, Lexington, Mass., were destroyed by fire early in the morning of Sept. 16. Loss is estimated at \$5000, on which there is little insurance. The greenhouses are located a short distance away, and were saved through the efforts of the firemen.

Auction sales have begun and will continue through every Tuesday and Friday at the new rooms of Wm. Elliott & Sons, 210 Fulton street, New York. Florists or nurserymen having a surplus in any line, and needing the room, can unload quickly and safely through this old and popular establishment.

GNAPHALIUM LEONTOPODIUM.

(Edelweiss)

"Which alone blooms amidst eternal snow,
Choice Edelweiss perennial in thy bloom
Great altitudes thou lovest, as on some
crest

Or snow-capped mountain top, there wind-
caress d.

While all about is cold and sterile gloom.
All vegetation else finds there its tomb.

And cannot long the vigorous rigor breast.
Alone, not even a bird to build a nest

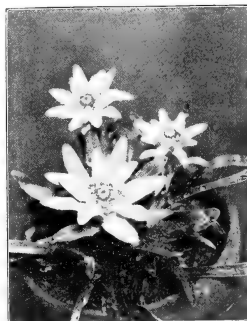
And comfort with his voice they lonely
doom.

A life of love those barren crags adorn,
Surrounded round by all the clouds on high.
Receiving, too, the first pure kiss of morn,
Baptized by all the mountain mists that

thy.

Whatever our fate, let us like thee be true,
Although the ills of life may daunt us, too.

This beautiful plant is grown very successful in rockeries, groups and pots at Lincoln Park, Chicago, and is the object of much admiration from visitors when it is in bloom. Mr. Frey, the gardener, gives the following as his method of culture: The seed may be sown in February in a mixture of compost leaf-mold with a little sand and lime. The seeds germinate in from ten days to two weeks, and when



large enough, the seedlings are pricked off into flats. In June the small plants are planted out in a cold frame and shaded during the hottest part of the day, remaining out-of-doors the entire following winter, covered with glass over a mulch of leaves. As soon as the spring season permits they are uncovered and later planted in pots or permanent position, where in June they will flower profusely.

It is said that many specimens of this famed alpine plant are flourishing on the roof of the Bank of Scotland and in Abchurch Lane, London.

PERSONAL.

George Stumpp and family of New York, have arrived from Europe on S. S. Kronprinz Wilhelm.

F. Ludemann of the Pacific Nursery, San Francisco, and Mrs. Ludemann arrived at New York on Friday last on S. S. Deutschland.

Sickness of a mild type has been the lot of a number of Philadelphia's busy workers the past week. W. J. Muth, J. Berger and N. P. Craig are among the number laid up at this writing.

CONTROL OF REGENERATION IN PLANT LIFE.

Professor William Albert Satchell, head of the botany department of the University of California, has discovered, in a study of the life processes of the kelp family, a seaweed that grows among the rocks of the Pacific coast, that the process of regeneration in plant life may be controlled in much the same manner that Dr. Jacques Loeb has been able to control it in animal life. Dr. Satchell found that only the inner tissues of the long body of the seaweed took part in the process of restorative regeneration, and that these tissues were in close conjunction to those that conduct the nutriment to the plant. By subjecting these tissues, with the inclosed cells, to sudden changes of environment, and severing some cells with which their regenerative tissues are closely associated in position and activity, the plant showed renewed activity and growth. Dr. Satchell concludes, with Dr. Loeb, that the change in osmotic conditions has the greatest part to do with the peculiar phenomena.

By making wounds in the weed and introducing external nourishment, the growth of the plant was also controlled. By controlling the direction of the flow of the nutrition in the plant, buds were made to grow where they had not grown before, and buds at the ends of the plant, which had been the strongest under normal conditions, were made to dwindle away. Dr. Satchell says that the peculiarities of the regenerative process can thus be resolved into a merely physical problem.

OBITUARY.

William Fitzgerald, a gardener of Quincy, Mass., dropped dead while at work on Sept. 11. He was for many years a trusted employee of the late John Quincy Adams, and was one of the pallbearers at Mr. Adams' funeral. He was 65 years old and leaves a family.

C. G. Nanz died at his home in Owensboro, Ky., on August 17. Mr. Nanz has been engaged in the florists' business some twenty-five years. He came to this country from Germany in 1865. He has been a member of the S. A. F. since 1902.

Michael Noonan, for the past six years foreman of the Villa Lorraine rose houses at Madison, N. J., died on Sunday, Sept. 17, after a brief illness. Mr. Noonan was one of the best rose growers of Madison. Previous to taking charge of the Villa Lorraine establishment he filled a similar position with Walter Reid. He was a faithful employee and a good man in every sense of the word. He leaves a widow and two little children.

John C. Ure died at his home, 2348 Evanston avenue, Chicago, September 9. Born in Glasgow, Scotland, he came to New York and found employment as a gardener. As early as 1854 he made Chicago his home and enjoyed much prosperity from his earlier efforts. He was superintendent of the Florists' Department in the Illinois State Building at the World's Fair, Chicago, in 1893. Mr. Ure was a member of the Horticultural Society of Chicago, and of the Chicago Florists' Club. The funeral took place at his late home, Tuesday, Sept. 12.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The opening meeting of the season on Sept. 19 was a record breaker, there being 175 members present. The number of new members admitted was 53. After the reading of the minutes by the secretary the meeting launched into a spirited discussion of the proposed S. A. F. exhibition in Boston next spring and the attitude of the club in connection therewith, some correspondence on this subject having taken place between the president of the S. A. F. and the secretary of the G. and F. Club. The debate was participated in by J. W. Duncan, W. H. Elliott, J. K. M. L. Farquhar and others, and was very interesting. It is still a subject of more or less discussion wherever the members chance to meet.

President Wheeler presented copies of the new form of certificate of award to be used in recognizing exhibits before the club and same were heartily approved by those who examined them. There were a few exhibits of garden flowers on the table.

NEW BEDFORD HORTICULTURAL SOCIETY.

The third annual show of this society was held Sept. 13-15, and for variety and arrangement the exhibit surpassed that of previous years. Of special interest were a *Musa Cavendishii* three years old, bearing a bunch of forty-five bananas, exhibited by William Keith, gardener to T. M. Stetson; *Begonia Rex*, and *Saxifraga sarmatensis* tri-color *superba*, which won a silver medal at Newport, by James Gathley, gardener to H. H. Rogers; evergreens by the Dighton Nursery, and exhibits of Peter Murray and the Centreville Dahlia Gardens. K. Finlayson and David Weir were the judges. Among the many awards were a silver medal to James Gathley, bronze medals to Mrs. J. C. Forbes and T. M. Stetson, silver cups to W. F. Turner, Mrs. H. A. Jahn, E. H. Wefers, J. C. Forbes.

NATIONAL CHRYSANTHEMUM SOCIETY OF ENGLAND.

Some years have elapsed since this society held a convention to discuss matters relating to the popular flower whose culture it has done so much to spread abroad. The society opens the ensuing season on Oct. 4, when its annual show of early varieties will be held at the Crystal Palace, Sydenham. In conjunction therewith a convention will be held on subjects relating to the early chrysanthemum. The following papers have been promised: D. B. Crane, "Garden Chrysanthemums;" C. Harman Payne, "The History of Early Flowering Chrysanthemums;" J. W. Moorman and E. F. Hawes, "Early Chrysanthemums for Town Gardens;" Geo. Gordon, "Decorative Value of Early Chrysanthemums;" E. F. Such, "Early Chrysanthemums for the Market."

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

After the usual summer vacation the regular meetings were resumed on the 13th inst., with a good attendance. The show of flowers and vegetables was up to the standard. R. Vinca, gardener to R. D. Foote, showed very fine cocombs in pots and vase of early white chrysanthemums; A. Herrington brought in *Nicotiana Sanderae* in pots; John Fraser, gardener to Gustave E. Kissell, put up some crotons in variety of fine coloring; E. Reagan had five vases cactus dahlias. Cultural certificates were awarded to all. The judges were C. H. Totty, W. Duckham and W. Mulmichel.

The attraction of the evening was the beautiful silver cup presented by R. & J. Farquhar & Co. of Boston, for the two best vases of carnations, 25 blooms, one white and one any one color. Arrangements for the flower show were completed. Mr. Herrington spoke of the Washington convention and Robert H. Schuitze, in his inimitable style, responded to the call for the "inner man" side of the convention.

HADDONFIELD DAHLIA SHOW.

Over five hundred varieties of dahlias were exhibited at the Haddonfield Dahlia Show, which was held on the 14th, 15th and 16th insts. at the Opera House. The show was well attended by the nearby cities as well as by many from Camden and Philadelphia. The centre of attraction was a splendid vase of the new *Kriemhilde*, which as a first-class dahlia has them all distanced. Among the singles we preferred *Gracie* as the most exquisite combination of color, with large size and perfect form. White suffused blush shading to deeper at centre. Among the Show varieties on exhibition none of them pleased us better than *Arabella*. Pale primrose, tipped and shaded with old rose and lavender. Other notable varieties were: *Gabriel*, cactus, red flushed and tipped with white; *Pink Century*, an immense single flower of charming pure light-pink color; *Rosenhagen*, ruby, with white shadings, cactus; *Alba Superba*, the finest of the single whites, distancing even the superb *White Century*; *Grand Duke Alexis*, big quilled bloom, white, lightly tipped with ruby; *Mrs. Roosevelt*, pinkish mauve with white, centre very large, a grand variety of the decorative type.

HORTICULTURAL SOCIETY OF THE PACIFIC COAST.

A complimentary dahlia show and banquet under the auspices of this society was held in Mission Opera House, San Francisco, last week. The prizes went to two exhibitors, the George Pope gardens of Burlingame, receiving eleven first prizes, and the Timothy Hopkins gardens of Menlo Park, one. Mrs. J. R. Martin, general director of the fall exhibition of the California State Floral Society and the Pacific Coast Horticultural Society, urged everybody to pull together to make the combination show in November a grand success.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual exhibition of this society of which we gave a partial account last week, although magnificent in all respects, was very poorly attended, the amount of money taken in for tickets being exceedingly small. The cause is undoubtedly the absence from town of the people who are the best patrons of these shows and the general indifference of the public to floral displays at a season when so much of outdoor enjoyment is to be found, especially in the beautiful suburban environs of Boston.

Reverting to the display of plants from the Harvard Botanic Garden, it may be fairly classed not only the largest, but the finest in its composition ever staged in this hall, and well merited the silver medal given for artistic arrangement.

Among the notable exhibits were the coniferous tree from Blue Hill Nursery; palms and foliage plants from Mrs. J. L. Gardner; A. F. Estabrook and Edw. McMullin; dahlias from H. F. Burt, J. K. Alexander, E. W. Ela and others. The prize for best bloom of dahlia, introduction of 1903 or later, was awarded to Mme. Victor Vassier, shown by W. G. Winsor, and second to Jeanne Charmot, shown by A. E. Johnson. Certificates of merit were awarded to H. H. Barrows & Son for *Nephrolepis Whitmanii* and H. A. Dreer for *Victoria Trickeri*. Honorable mention was given to A. E. Johnson for seedling dahlias, H. A. Dreer for *Nymphaea Bissetti* and *Nymphaea dentata magnifica*, and to Julius Roehrs Co. for *Alpinia Sanderae*.

CALIFORNIA STATE FLORAL SOCIETY.

The dahlia show held by this society on the 8th instant was a compliment to members and friends, and was attended by over eleven hundred people. More than 200 varieties of blooms were shown by the following: George A. Pope of Burlingame, William Kettlewell, gardener; James L. Flood of Menlo Park, H. Maclean, gardener; Sidney Clack of Menlo Park, M. W. Carter, gardener; Dr. H. L. Tevis, Joseph Thompson, gardener; Timothy Hopkins, Melvin Carter, gardener; Mrs. J. Leach; Golden Gate Park; Mrs. Ellen Coursen-Roeckel; the Crocker Estate; Mrs. Annie Lueders; Mrs. T. Sachan; Charles Fenton, an amateur of the Flood gardens. The judges were Professor Emory Smith, president; H. Plath and Charles Abraham.

Special interest seemed to centre in the J. W. Bagge and Octopus of the Pope collection; the new *Kriemhilde* of the Fenton collection; Brilliant, exhibited by Timothy Hopkins, and Staghorn by Dr. Tevis. The exhibit of George A. Pope won most of the cash prizes, getting first for the best collection, the best 12 and best 6 decorative and for fancy pompon varieties. J. L. Flood took first for best 12 cactus, and Sidney Clack first for the best 6 cactus varieties.

AMERICAN POMOLOGICAL SOCIETY.

The annual convention of this respected society was held in Kansas City September 19-23. The program was most attractive. Among the important subjects treated was "Apple and Pear Blight," by Professor Whetzel, a vegetable pathologist of Cornell University. Professor Whetzel has made several important discoveries which were given to the public at this meeting.

The eminent agricultural explorer, David G. Fairchild, of the U. S. Department of Agriculture, spoke of the useful things we may expect to procure from the unexplored regions of the Orient and East.

The horticultural history of the states west of the Missouri was rounded up in a series of spicy addresses at one session during the convention.

The subject of pruning was ably handled by Mr. N. F. Murray of Missouri, Professor Crandall of Illinois, and others from the standpoints of locality and needs of the tree.

Among other important subjects treated were cold storage by W. A. Taylor, Division of Pomology, Washington, D. C.; new fruits by Colonel Brackett, United States pomologist.

Several important committees made reports. One of these was the subject of inspecting and grading fruit under consideration. Mr. C. H. Williamson of Quincy, Ill., was chairman. Among the attractions was a reception and banquet, a motor car ride through the parks, and at the close of the convention an excursion through the famous Ozark fruit region of Missouri and Arkansas tendered by the Kansas City Southern and Frisco railroads.

PHILADELPHIA FLORISTS AMONG THE DAHLIAS.

A representative delegation from the Florists' Club of Philadelphia journeyed to Atco, N. J., on the 16th inst. at the invitation of the L. K. Peacock Company to view the 130 acres of that glorious autumn beauty which this establishment has under cultivation. Sixty-five of the beauty and chivalry of the club made up the party. Under the able guidance of Mr. L. K. Peacock and his brother, Amos, and with the valuable assistance of Mr. Manill, the treasurer of the company, the party was taken over the grounds. At 4 o'clock lunch was served on the lawn, and after some speechmaking by Robert Kift, L. K. Peacock and others the whole party was photographed. At 5:13 the train stopped to take the delectation home, and it was a sight to see them—every one laden with huge armfuls of flowers, as Mr. Peacock told them to help themselves. Those who were not there missed a rare treat. Atco is a fine town in the estimation of Ed. Flood and a few more of its inhabitants; but to the outside world Peacock and his dahlia farm are what have made Atco famous. All the dahlias are there—gathered from everywhere—and by the million! They can supply the whole world. As to varieties and their merits—that will have to be another story; no room this week.

SOCIETY OF IOWA FLORISTS.

At the last meeting of the society, in Des Moines, the following officers were elected for the ensuing year: President, G. A. Heyne, Dubuque; vice-president, Theo. Ewoldt, Davenport; secretary, Wesley Greene, Davenport; treasurer, S. E. Muntz, Dubuque, J. C. Rennison, Sioux City, J. F. Wilcox, Council Bluffs, E. C. Keck, Washington, and Mrs. S. E. Muntz were elected on the executive committee. Mr. G. A. Heyne read a paper on "Ornamental School Grounds—Their Influence on the Pupils and Benefit to the Florist Trade"; and William Trilow described the method used by the Iowa Seed Co., in propagating hardy shrubs. The next meeting of the society will be held in Dubuque.

NOTES.

The Kentucky Society of Florists held a special meeting on Thursday, September 14, at Aug. R. Baumer's store, to consider business relative to the coming show.

Our report of the Newport Horticultural Society's show in last week's issue should have credited Mrs. C. M. Bell, D. McIntosh, gardener, with second prize for group of palms and foliage plants covering 100 square feet, instead of 50 square feet.

The dahlia show of the American Institute at the hall of the society in New York City, was held on Wednesday and Thursday of this week. There was a splendid showing of new and beautiful varieties, besides the usual contributions of fine flowering and foliage plants.

The Gardeners' Club of Baltimore, met at 7th hall on Monday evening, Sept. 11. A goodly number was present, and a general routine of business was enacted. F. Lautenschlager, representing Kroeschell Bros. Co., gave a talk on the merits of wrought iron boilers vs. cast iron boilers, also demonstrated the workings of Kroeschell's new chain wrench, "The Ideal."

EARLY HISTORY OF INSECTICIDES.

Read Before the Hartford Florists' Club by C. N. Ruedlinger.

(Continued from page 206.)

J. Murray, in 1841, used sulphur and alcohol against mildew on peach trees. In December, 1844, nitre and water was used for mildew on chrysanthemums. On March 5, 1842, David Hagerston was awarded a premium of \$120 by the Massachusetts Horticultural Society for the cheapest and most effective mode of destroying the rose bug. It was 2 pounds whale oil soap to 15 gallons water.

A recipe made up by Nichols consisted of soft soap, flowers of sulphur, nux vomica, and soft water. Supposed to be good for any scale insects.

Loudon publishes Hamilton's recipe, consisting of the following ingredients: sulphur, Scotch snuff, hellebore powder, nux vomica, soft soap, cayenne pepper, tobacco liquor, and boiling water. Hamilton himself mentions that solution as a specific, if properly used: that is, while you wash the

plants with this solution, remove the insects.

In 1849, Hemery, a French nurseryman, recommended for peach mildew acornite branches and tubercles and water to be followed right off with pigeon dung and urine. Grison, head vegetable gardener at Versailles, recommended flowers of sulphur, fresh slaked lime, and water for mildew. The liquid was called "The Grison Liquid," and is still in use.

In 1850, J. Young of Louisville, Ky., found that covering the young fruit with a thin coating of lime was a preventive for the plum curculio.

In 1861, W. F. Radcliffe experimented with copper sulphate, as it was used with good success for smutty seed-wheat. He tried it on roses for mildew. Not long after that growers were warned not to use sulphate of copper, as it would kill roses by coming in contact with their roots and no more was heard of it until 1883, when, under the directions of Millardet, experiments were made in the Medoc with sulphate, carbonate, phosphate, and sulphide of copper.

I may say a few words in regard to the invention of Bordeaux mixture. In southwestern France, in the Maritime department of Gironde, is situated the city of Bordeaux. It is one of the greatest grape-raising districts. It was here that the downy mildew of America made its first appearance about 1878. 1882 was particularly favorable for the disease and but few vines escaped the attack. These that escaped were situated along the highways. Vineyardists in these localities had suffered considerable losses from the sealing of their grapes by children and travelers along the highways. It had been the custom to sprinkle verdigris upon a few rows near the highway to give the appearance of having been poisoned. Some years before the appearance of the downy mildew, this substance being too expensive, it was replaced by a mixture of the milk of lime and some salt of copper. The vines thus treated were the ones which had retained their foliage through the fall of 1882, while others growing further from the road lost their leaves. Prillieux and Millardet were among the first ones to note the effect, and they started at once to work out a proper solution in which work they were assisted by U. Gayon, professor of chemistry in Bordeaux. It is consequently to these men that the honor of having first experimented with the "Bouillie Bordelaise," as it then began to be called, may be granted; and to Millardet in particular may be given the credit of being the first to plan and publish results which showed plainly the value of the copper compounds in commercial work.

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Good descriptions and illustrations of edible mushrooms and toadstools are given by J. C. Arthur in the September Country Calendar. He writes:

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while the caps are fresh darken incomprehensibly in cooking. This does not make them unpalatable or harmful, but, of course, renders them unappetizing. Mushrooms are much the tenderest of all vegetables, and the three toadstools here considered are in turn the tenderest of mushrooms.

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Smilax.	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
Asparagus Plumosus, str.	15.00 to 20.00	25.00 to 30.00	25.00 to 30.00	25.00 to 30.00
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Flower Market Reports.

BOSTON The better grades of all staple lines of flowers are selling better than they did last week. Roses have advanced a peg in value and carnations bring figures that are high for the season. There has been a general tendency among the carnation growers to return to the old method of field planting, and few carnations have been carried under glass in this section this season; hence the scarcity of flowers at present. No violets have appeared in this market thus far.

BUFFALO. Improvements are shown daily in the market and surplus stock is not much to be seen except in green goods, but has been moving 50 per cent. better than the previous week. Beauties and teas have had an exceptionally good call, as well as lily of the valley and other flowers. Carnations are making their appearance, and some good Enchantress are to be seen, but not enough to go around. Asters and gladioli are moving at a rapid rate, better prices prevailing. Store openings, weddings and floral work have kept the dealer busy for the past week.

CHICAGO Business the past week was only fair, while the market showed an abundant supply of superior quality, with the exception of Beauties, which supply seems to have shortened up considerably, and, as is usually the case, there seems to be more call for them. Chrysanthemums in yellow and white appear in limited supply. Violets show improvement, both single and double. Bridesmaid and Kaiserein of unusual quality, supply sufficient to meet all demands. Brides still scarce; seem to have been displaced by Kaiserein. Odd lots of roses, such as Sunrise, Uncle John, Maman Cochet, Richmond and Killarney appear in limited quantities, but are not preferable. Aster supply suddenly shortened with only fair blooms, and prices prevailing accordingly. A choice lot of dahlias come in from Michigan and larger quantities promised.

LOUISVILLE An improvement in nearly every line is noted in business conditions. Carnations and roses are of better quality, and there is an increasing demand. Cosmos of good quality sells well. Dahlias, with the exception of white, are satisfactory and the demand for them continues.

NEW YORK The wholesale marts are experiencing a continuation of the inactivity heretofore reported, and the same condition prevails in retail lines. Little improvement is anticipated before Oct. 1, or possibly still later. As to stock offered, it shows an improvement in quality, especially as to roses and carnations. Of asters there is no

end; they are piled up on all sides, and there are heaps of dahlias and gladioli. The violet growers are sending quantities of inferior bloom—unwisely, it seems to us, because it gives the flower a bad start, and must work to its disadvantage in opening the season.

PHILADELPHIA Beauties were the feature of the market the past week; no finer stock for the season has ever been seen here. In addition to excellence of foliage and stem, the buds are long and first-class as to color. The crop is abundant, but the fine quality calls the market and prices have kept firm. Very good Liberties are also in the front rank and seem to be plentiful and reasonable in price, notwithstanding the complete or partial withdrawal of Bartram, Mortensen, Towill and other growers from the cultivation of this variety. Richmond has been taken up by some in preference to Liberty, and all are waiting to see the results of the venture. Killarney made its appearance, but is short in the stem, and so far, Bridesmaid is the better flower and has the call except in isolated cases. Carnations are improving steadily. Some very fine white are now coming in. Queen seems to be about the best to date. The first Montemort pink chrysanthemums of the season arrived on the 15th inst. and were quickly snapped up at \$4.00 per dozen. They were large and well finished. Dahlias are in their glory. Clifford Bentley, William Argnew, and Arabella were the leaders last week. Kriemhilde has been coming in only sparingly, but a good wave of it is expected soon. Asters and other outdoor stock still coming in in good shape. Gardenias looming up in better quantity and promising well. A small crop of Stephanotis floribunda is being marketed. Lovely thing. Wonder it is not more grown.

WASHINGTON Business since Sept. 1 has been only a little better than July and August. There have been a few small weddings and some funeral work. In order to give a better impetus to business several firms are advertising "annual palm sales" at reduced prices. This is not a bad idea at this season, when it is easy to get a good selection of plants at prices which permit of a 25 per cent. discount and still have a fair profit. It is good direct advertising for which the other party pays. Stock is quite plentiful. Asters are over, but dahlias are now coming in in large quantities and of fairly good quality. The first violets were seen on the 15th. They were Lady Campbell, grown in Louisa county, Va. Bookings for October weddings are quite promising, and everyone is anticipating the best season we have ever had in Washington. I will write you further about this, however, next July.

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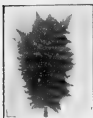
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" extra.....	6.00 to 10.00	5.00 to 10.00	General Class and Lower grades...	.75 to 1.00	.75 to 1.00
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Ordinary.....	.75 to 1.50	.75 to 1.50	Smilax.....	1.00 to 1.25	1.00 to 1.25
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34 HAWLEY STREET - BOSTON

List of Advertisers

Page	Page
Baker Wm. J. 328	McConnell Alex. 330
Barrows H. H. & Son, 317	McKellar Charles W. 328
Bayersdorfer H. & Co., 327	McKissick W. E. 328
Blair, Chas. 327	McManus Jas. 328
Boas W. J. & Co., 329	Metropolitan Material
Boudington A. T., 326	Exchange 326
Bonnet Bros., 331	Mitchell H. F., 328
Boston Florist Letter	Michigan Cut Flower
Exchange 329	Exchange 328
Breck Joseph & Sons 318	Millang Charles 331
Breitmeier's J. Sons 329	Millang Frank 330
Budling J. A., 328	Moninger J. C., 335
Burnham, Hutchings	Mr. Hossack Nurseries
Piercion Co., 336	ies 327
Burpee W. A. & Co., 318	Murdoch J. B., 331
Chicago House Wreck-	Niessen Leo, Co., 316-328
ing Co., 336	
Chicago Carnation	Peacock L. K., 316
Co., 336	Pennock Samuel, 316-328
Cooke G. H., 329	Perkins John J., 334
Cotage Gardens, 317-327	Phila. Cut Flower Co., 329
	Piercion F. C., 316
	Pittsburg Cut Flower
	Co., 331
	Pye R. C., 336
DeNijs Bros., 327	Rawson W. W. & Co., 318
Dilger Wm., 331	Raynor John I., 329
Dreer H. A., 317-318-335	Reed & Keller, 329
Dysart R. J., 334	Reinberg Peter, 328
	Robinson H. M. &
	Co., 331
Elliott Wm. & Son.,	Rohrer August & Son, 327
326-327	
Euler J. J., 336	Sander & Son, 317
Ernest W. H., 335	Schultz Lumber Co., 330
	Se Hay John A., 336
Farquhar R. & J. &	Scott John, 317
Fellow, Mrs. Le-H. 327	Sharp, Partridge & Co., 335
Fletcher F. H., 329	Sheridan W. F., 329
Ford Bros., 330	Sievers J. H. & Co., 316
Forest Nursery &	Siggers, 335
Seed Co., 327	Situations & Wants, 334
Franklin Davis Nur-	Sklidelyk S. S., 317
serly Co., 327	Stearns A. T. Lumber
Fromow W. & Sons, 327	Co., 336
	Sutherland Geo., 316
Galloway S. J., 327	Co., 331
Gormley W., 327	Suzuki & Iida, 327
Grove T. J. & Co., 318	Sylvester H. H., 335
Gude A. & Bro., 329	
Gurney Heater Mfg.	Thomas W. H., 327
Co., 334	Thompson J. D. Co., 318
Gutman Alex., 330	Thorburn J. M. & Co., 318
	Tracey R. H., 327
	Troy, J. H., 327
Hall Asso., 336	Vaughan and Sperry, 328
Lammond J. A., 331	Vaughan's Seed Store, 318
Heller & Co., 318	
Hewes A. H. & Co., 335	Walsh M. H., 327
Hill E. G. & Co., 336	Ward R. M. Co., 318
Hippard E., 335	Watson G. C., 327-334
Hollis Geo., 327	Weber F. C., 329
Holly Castle Co., 335	Ward R. M. Co., 318
Horan E. C., 331	Weich Bros., 328
Hutchinson E. F., 317	Weiland & Kisch, 328
Huh Eng. Co., 334	Wieston Bros., 328
Hunt E. H., 328	Wintorch C., 327
	Wintorch E. F., 328
Kasting W. F., 327-331	
Kervan Co., The H. & S., 331	Yalaha Conservatories, 327
Kilbourne, R., 327	You g John, 331
King Cons. Co., 336	Younz & Nugent, 330
Kloeker A., 336	Young Thos., 330
Lager & Hurrell, 337	
Lang Julius, 334	
Leuthy A. & Co., 317	
McCarthy N. F. &	
Co., 331	

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Advertisements under this head, 10 cents a line.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

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Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARACARIAS, ASPARAGUS, FERNS AND DECORATIVE PLANTS.

H. A. Dreer, 714 Chestnut St., Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

Yalaha Conservatories, Yalaha, Fla.
For page see List of Advertisers.

R. Kilbourn, Clinton, N. Y.

For page see List of Advertisers.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 51 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. W. & Co., New York.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Bermuda Grown Harrisil and Freesias.
For page see List of Advertisers.

De Nijs Bros., Hillegom-Holland.
For page see List of Advertisers.

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Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Slevens & Co., 1251 Chestnut St., San Francisco, Cal.
Hansel Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

Leo Niessen, 1217 Arch St., Philadelphia, Pa.
Carnation Plants.
For page see List of Advertisers.

H. Weller & Sons Co., Oakland, Md.
My Maryland, Jessien.
For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

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E. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.
J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

CELERY PLANTS.

Coolidge Bros., So. Sudbury, Mass.
For page see List of Advertisers.

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J. M. Thorburn & Co., 38 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, DeFance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Amundale, Mass.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Waltham, Mass.
Nephrolepis Barrowsil.
For page see List of Advertisers.

G. C. Watson, Philadelphia.

Ferns and Poinsettias.
For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

FIELD-GROWN VIOLETS.

R. Englemann & Son, Pittsfield, Mass.

FLORISTS' SUPPLIES.

H. M. Florist & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.
Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.
Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 18th and M. Sts., Washington, D. C.
For page see List of Advertisers.
A. H. Hewes & Co., Cambridge, Mass.
For page see List of Advertisers.

You Need Not Go Outside

THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.
Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

Rees & Compere, Long Beach, Cal.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.

For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich.

Fancy Ferns.
For page see List of Advertisers.

HEATING APPARATUS.

Burham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.

For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.

Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.

For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LADY CAMPBELL VIOLETS.

Strong, healthy field-grown plants, free
from disease, packed to carry safely free
of charge. No. 1, \$2.50 per 100, \$2.00 per
1000; No. 2, nice plants, \$1.50 per 100,
\$10 per 1000, good and very cheap. Ad-
dress Charles Black, Hightstown, N. J.

W. H. Thomas, Convent Sta., Morris
Co., N. Y.

For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia.
For page see List of Advertisers.

LILY BULBS.

Ralph M. Ward & Co., 12 W. Broadway,
New York.

Bermuda Harleil Bulbs.

For page see List of Advertisers.

W. F. Kesting, Buffalo, N. Y.

Lilium Harleil.

For page see List of Advertisers.

A. T. Roddington, New York.

Cold Storage Lilies.

J. M. Thorburn & Co.,

36 Cortlandt St., New York.

For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.

For page see List of Advertisers.

MYRTLE.

S. J. Galloway, Eaton, Ohio.

For page see List of Advertisers.

NICOTIANA SANDERAE.

H. A. Dreer, Philadelphia.

For page see List of Advertisers.

J. M. Thorburn & Co., New York.

For page see List of Advertisers.

Vaughan's Seed Store, Chicago and
New York.

For page see List of Advertisers.

NURSERY STOCK.

Mt. Hilarik Nurseries,

New Rochelle, N. Y.

For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.

Cattleya Scroederiae.

Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.

For page see List of Advertisers.

O. A. Miller, 24 Clinton St., Newark, N. J.

Cypripedium Longifolium and Sedeni.

Also, Cypripedium for exchange.

PAEONIES.

George Hof's, S. Weymouth, Mass.

For page see List of Advertisers.

Cottage Gardens Co., Queens, L. I., N. Y.

For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill.

For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.

For page see List of Advertisers.

PEACH PITS.

Franklin Davis Nursery Co.,

Baltimore, Md.

For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.

For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.

For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.

For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.

For page see List of Advertisers.

Thomas Young, Jr., New York.

For page see List of Advertisers.

Fred C. Weber, 42nd Olive St., St. Louis, Mo.

For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.

For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,

Washington, D. C.

For page see List of Advertisers.

ROSES.

H. H. Walsh, Woods Hole, Mass.

Marly Roses, H. T. Roses and Rambiers.

For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,

New York.

English-Grown Roses.

For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.

Killarney and Richmond.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.

For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil

Hall Sq., Boston.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,

Boston.

For page see List of Advertisers.

SEEDS.—Continued.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.

For page see List of Advertisers.

J. M. Thorburn & Co.,

36 Cortlandt St., New York.

For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,

Forest Tree and Shrub Seeds.

For page see List of Advertisers.

Henry F. Mitchell, 1018 Market St.,

Philadelphia, Pa.

New crop of Cyclamen Seed.

Mitchell's Grand Strain.

For page see List of Advertisers.

Union Apple, Pear, Peach, Plum, etc.,

Feb. 1879. High Grade Grass, Clover, and Tree Seed.

SMILAX.

R. Kilbourne, Clinton, N. Y.

E. Hppard, Youngstown, O.

For page see List of Advertisers.

STEAM TRAP.

Burham Hitchings Pierson Co.,

1133 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,

Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,

Chicago.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-

ton.

George A. Sutherland Co., 34 Hawley St.,

Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-87 Ellicott St., Buf-

falo, N. Y.

Chicago.

For page see List of Advertisers.

J. A. Budlong, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McMillan, 51 Wabash Ave., Chicago.

Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Weland & Risch, 59 Wabash Ave., Chicago.

Wiest Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. F. Winterston Co., 45, 47, 49 Wabash

Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40

Miami Ave.

New York.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 26th St., New

York.

Ford Bros., 48 West 28th St., New York.

Wm. Gormann, 57 West 25th St., New York.

Alex. J. Guttman, 43 West 28th St.

Jas. A. Hammond, 113 West 30th St., New

York.

E. C. Horan, 55 West 30th St., New York.

Julius Laug, 53 West 30th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 26th St., New York.

Frank Millang, 55-57 W. 26th St., New

York.

John J. Perkins, 115 W. 30th St., New York.

John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.

Trandy & Schenck, 44 W. 28th St., New

York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1452 So. Penn. Sq., Phila-

delphia, Pa.

W. F. McKissick, 1614 Filbert St., Phila-

delphia, Pa.

Leo Nielsen Co., 1217 Arch St., Phila-

delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-

delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,

Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504

Liberty St., Pittsburg, Pa.

J. R. Murdoch & Co., 545 Liberty St., Pitts-

burg.

New Offers in This Issue.

FERNS.

S. S. Skidelsky, 824 N. 24th St.,
Philadelphia.
For page see List of Advertisers.

CARNATION PLANTS AND PANSIES.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

MUSHROOM SPAWN.

A. T. Boddington, 342 W. 14th St.,
New York.
For page see List of Advertisers.

PANSY SEEDLINGS.

J. Condon, 734 Fifth Ave., Brooklyn, N. Y.
For page see List of Advertisers.

ORCHIDS.

E. F. Hotchkiss, 48 Watson Ave.,
E. Orange, N. J.
For page see List of Advertisers.

VIOLET PLANTS.

Mrs. Leslie H. Fellows, Hyde Park, Mass.
For page see List of Advertisers.

AN INTERESTING EPISODE.

An interesting episode took place the other P. M. when Mr. Ben Starkey our popular Y. M. was married to Miss Conny from the village of Frankford and a large assembly of invited relatives & so forth. Ben has been keeping Steady Co. for a clever spell & the climax has been looked for by a No. of years. Congratulations Ben & wife, & many of them O. K. VERITAS.

The "Ben" referred to in the above veracious chronicle is book-keeper for Pennock Bros. of Philadelphia. It is his misfortune rather than his fault, that he lives in the "goose pastures" and has to stand for the naive efforts at journalism exhibited by this country correspondent. But it is quite likely Ben is so buried in felicity at present that he knows little and cares less as to what the scribblers and others say. Nevertheless, we echo the sentiment of Mr. Veritas: "Congratulations and many of them." G. C. W.

CATALOGUES RECEIVED.

Henry F. Michell Co., Philadelphia. Wholesale and retail bulb catalogues.

S. J. Galloway, Eaton, O. Fall price list of bulbs, hardy plants, shrubs, etc.

Thomas J. Grey & Co., Boston. Bulb catalogue.

Kroeschell Bros. Co., Chicago, Ill., send out a pamphlet descriptive of one of their specialties—the Ideal Chain Wrench. It grips everything, and once inside its invincible jaws, the most obstinate joint must give way. It is a wonder.

A. Dessert, Chenonceaux, France.—Catalogue of peonies, No. 15. This list of several hundred varieties, the result of sixty years' specialization of the peony, is practically indispensable to the peony enthusiast. The text is in French and English throughout.

The Philadelphia fall catalogues are now being mailed and business has already commenced to come in. Drees' is especially tasteful this year, having colored covers with beautiful and artistic reproductions of May-flowering tulips. Michell's is as gay and affluant as a May morning with hyacinths, etc. One of their best efforts! The L. K. Peacock Co.'s book is profusely illustrated with halftones and is very artistic. All are free for the asking.

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON

SEED TRADE NOTES.

Most of the leading members of the seed trade having completed their vacations, have returned to their offices ready and eager for another campaign, and most of them regard the outlook for the season of 1905-6 as very promising.

J. A. Everitt of Indianapolis is in the hands of a receiver. This seems to mark the end of "The Pure Seed and Plant Co. of America." If many persons who are chasing phantoms would devote the same thought and energy to their business not a few failures might prove successes.

Two or three months ago it was generally thought the red varieties of onion would be shorter than the yellow, particularly Southport Red Globe. The most recent estimates, however, indicate that the yellows are the scarcer, and the Southport Yellow Globe in particular. These periodical shortages are the safety valves of the seed trade and without them to work off the accumulated surpluses general stagnation would result.

Considerable activity is apparent for the season of the year, many inquiries reaching the leading wholesale houses and growers, but the latter are reluctant to name prices particularly on peas and beans. As to beans, it begins to be quite apparent that the crop will be a disappointing one, especially on the Davis and Wardwell Kidney Wax varieties. Unless present indications are misleading, these two sorts are going to prove as scarce as last year or nearly so. All wax varieties are going to be in short supply and many of the fancy green pods the same.

LIST OF PATENTS.

Issued September 5, 1905.

- 798,603. Insecticide. Willis E. Everette, Tacoma, Wash.
798,669. Adjustable Clip for Connecting Purlins in Greenhouses with Supporting Column. George M. Garland, Des Plaines, Ill., assignor to George M. Garland Co., Des Plaines, Ill.

GREENHOUSES BUILDING OR PROJECTED.

- Cohoes, N. Y.—A. D. Carpenter, one house, 20x125.
Whitman, Mass.—H. H. Barrows & Son, one house.

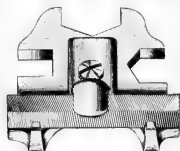
ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building
28 STATE ST., - BOSTON
Telephone, Main 58



"TWIN OAKS," Washington, D.C.,
Sept. 16, 1905.

Mr. George C. Watson, Phila.

DEAR SIR,—I am much pleased with the SHARPENERS. They are all you claim for them. They sharpen the LAWN MOWER blades quickly, giving them the proper BEVEL, and without the rough, uneven edge which one is so apt to get with an ordinary file. Very truly yours,

Gardener for PETER BISSETT.
Mrs. G. G. Hubbard

EVERY ONE SHOULD HAVE IT. 75 CENTS EACH
postpaid. Liberal discount to agents.
GEORGE C. WATSON, 1614 Ludlow St., PHILA.

ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON.

Illustrators and Designers

WANTS.

SITUATION WANTED. As second man on first-class private place where orchids, palms and roses are grown. Single, 28. Practical experience in general stock. Address E. L. R., care Mrs. George Beck, 1081, Coggeshall Ave., Newport, R. I.

MR. WALTER KENNEDY, Floral Expert, wide experience of Australia and Southern Hemisphere generally, will shortly arrive, and will be glad to receive offers of engagement in first-class Floral Store. Address Export, care Horticulture, 11 Hamilton Place, Boston, Mass.

SITUATION IN RETAIL STORE. Lady wishes situation, preferably in eastern city. Good experience and competent to take charge of floral department. Character and ability fully vouched for by past employers. Address Business, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED.—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED. A competent palm grower. Only one who has had ample experience and who is anxious to settle must apply for a permanent position. Address, Palm Grower, care Horticulture, 11 Hamilton Place, Boston.

POT MAKERS FOR 140 YEARS
A. H. Hews & Co. Inc. CAMBRIDGE, MASS.
 KIND OF EVEREST WARE FLOREST

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special **"PECKY CYPRESS"** Position to Furnish

Everything in PINE and HETLOCK BUILDING LUMBER WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO

Tel. North 1626 and 1627

GLASS

FACTORIES ARE NOW CLOSED
 for the season. Our stock is complete

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

THE HOLLY CASTLE

Electric Circulator

THE SENSATION OF THE S. A. F. EXHIBITION

Insures independent hot water circulation. Can be attached to any system of piping at slight expense

The greatest boon in many years for the greenhouse man

Send for Descriptive Circular

HOLLY CASTLE CO., Engineers, 49 FEDERAL ST., BOSTON.

H. H. SYLVESTER

Mason and Builder

818 Tremont Building, Boston, Mass.

GREENHOUSE Mason Work a
 Specialty

PATENTS

CAVEATS, TRADE MARKS,
 COPYRIGHTS AND DESIGNS.

Send your business direct to Washington,

saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary

examinations made. Att'y's fee not due until patent

is secured. PERSONAL ATTENTION GIVEN. 19 YEARS

ACTUAL EXPERIENCE. Book "How to obtain Patents,"

etc. sent free. Patents procured through E. G. Siggers

receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$3. a year

E. G. SIGGERS, 918 F ST. N. W., WASHINGTON, D. C.

Standard Flower.. POTS

If your greenhouses are within six miles of the Capital, or ten miles, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

Holds Glass

Firmly

See the Point

PEERLESS

Glazing Points are the best.

Box 1000 points 75 cts. postpaid.

HENRY A. DREER,

114 Chestnut St., Phila., Pa.



CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL

of EVERY DESCRIPTION

JOHN C. MONINGER & Co. 412 to 422 HAWTHORNE AV. CHICAGO

In writing advertisers, mention Horticulture



The Standard Steam Trap

Certificate of merit awarded at Washington, D. C., Florists' Convention. For simplicity, durability and perfect satisfaction it has them all guessing. It is in a class by itself. To see it work a large plant as well as a small will convince the most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still leads as the most durable, easiest working and the all-around satisfactory machine.

The Duplex Gutter is gaining all the time, over 12,000 feet sold this for this season. Catalogues free.

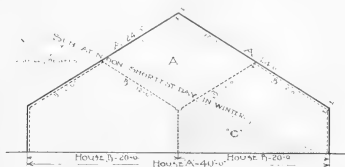
E. HIPPARD,

Youngstown, Ohio



Advantages of Large Houses

We believe thoroughly in the large even span house for cut flower growers. Believe in them so strong that we have made this little diagram just to show you our reasons. To start with the single house (A) has the same amount of glass surface as houses B-B, yet heated with less fuel. (A) has 26% additional air space—more uniform degree of temperature and moisture—increased circulation of air, better ventilation.—The greater mass of heated air is a protection against sudden outside changes—gutter,



ridges, sash, header, roof of one B shades other B greater part of day (see diagram C). Last, but the one on which the entire matter really hinges, a saving of from 15 to 20% in fuel, some even claim 25%. We expect to hear from you on this last statement. Of course we build any form of house you prefer, and would like to correspond with you to that end. Send for catalog J-G.

BURNHAM HITCHINGS PIERSON COMPANY

GREENHOUSE MANUFACTURERS AND BUILDERS

1133 Broadway Cor. 26th St., New York.

Boston Branch, 819 Tremont Bldg.

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,

BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

SEND FOR

NEW GREEN HOUSE CATALOGUE

JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
AND STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material

Ask for our Special Catalogue No. 554 describing Boilers, Tubes, Boilers, Tubes, etc., Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

What the Trade says about the
Peerless Glass Repair Clamp.

"We think that your PEERLESS GLASS REPAIR CLAMP is the finest thing on the market for the purpose."

WICTOR BESS,
Chicago, Ill.

For a sample address **A. KLOKNER,**
Wauwatosa, Wis.

HORTICULTURE

Vol. II.

SEPTEMBER 30, 1905

No. 14



CLIVEDEN

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ADVERTISE YOUR FALL BUSINESS

Horticulture's Readers Comprise the Most Intelligent and Progressive Class. Their Trade is the Kind You Want

Offer the Right Goods in the Right Way in the Columns of Horticulture and New Business will Follow

Here are a Few Unsolicited Testimonials From Those Who Have Tried It

FOR FIVE YEARS.

Enclosed please find \$5 and book me for Horticulture for five years. I like it.—T. M.

IT DOES THE SELLING.

Stop our ad. in Horticulture for Prosperity carnation; all sold. Your paper certainly does the selling.

AUGUST GAEDKE & CO.

ENTIRELY SOLD OUT.

Discontinue our ad. for thermometers after this week's edition. Entirely sold out and unable to procure more.

Yours respectfully,
WM. ELLIOTT & SONS.

ENTIRELY SOLD OUT.

Gentlemen:—Please discontinue my ad. in Horticulture, as I am entirely sold out and have nothing more to offer at present. Just as soon as I have anything to advertise you shall hear from me.

Yours truly,

T. ROLAND.

RESULTS EMINENTLY SATISFACTORY.

It is a pleasure for us to say that the results from our advertising in Horticulture have been eminently satisfactory, not only in the number of inquiries received, but in direct sales as well. We congratulate you upon the strong showing you are making.

Very truly,

THE DINGEE & CONARD CO.
West Grove, Pa.

MOST SATISFACTORY RESULTS.

Dear Sir:—It gives me pleasure to state that the advertisement I placed in your paper has given most satisfactory results. Would further add that Horticulture is a credit to the publisher and is deserving of a grand effort on the part of those in the florists' profession (and especially those of the New England States) to use its columns to help place it in the leading position where it should be (if, indeed, it is not already there).

Wishing you continued success, I am,

Yours very truly,
H. M. TOTMAN.

ENTIRELY SOLD OUT.

Kindly discontinue our advertisement after the issue of this week; we are entirely sold out of Wellesley plants.—Waban Rose Conservatories.

RETURNS VERY SATISFACTORY.

To Horticulture:—As we have taken orders for about all our salable stock, we shall have to stop our ad. for the present, otherwise we certainly should have kept it going. Our returns through Horticulture are very satisfactory, and we shall patronize same on a bigger scale when we start again.

Very truly yours,

POAT BROS.

Ettrick, Va.

"WE COVER THE COUNTRY."

Thanks to Horticulture, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico and Cuba, which goes far to prove the value of Horticulture as an advertising medium. We are very pleased with the results of our advertising in Horticulture, and wish every success to the paper and editor.

Respectfully,

A. LEUTHY & CO.

AMPLIFY JUSTIFIES THE EXPENDITURE.

Wm. J. Stewart, Editor Horticulture:

Dear Sir:—We wish to throw two bouquets. One to you, the other to ourselves. We sincerely congratulate you upon the wide and valuable circulation Horticulture must have, judging solely by the inquiries we have received as well as the orders placed through our advertisement. We find it reaches far and beyond what we surmised (New England). Our letter list shows that its advertising columns extend to and beyond the Great Lakes. Therefore, we throw you the first bouquet, and the second one we feel justified in casting our way, that we evidenced good judgment in placing the circular ad. with you. What we have already received amply justifies the expenditure. We remain, very truly yours,

WILLIAM W. CASTLE.

For Holly-Castle Co.

BEST WE EVER READ.

You will please send us your valuable paper, the best we ever read; spicy and up to date relating to all subjects pertaining to horticulture.—S. O. N.

MORE THAN PLEASED.

Horticulture seems to be the paper we have long been looking for. It covers the field as no other trade paper has. I am more than pleased with it.

Very truly yours,

W. B. A.

ALL SOLD OUT.

I am all sold out of stock as advertised, so will say that the two insertions will be sufficient at present.

Yours,

J. W. HOWARD.

Somerville, Mass.

LARGE NUMBER OF REPLIES.

Dear Sirs:—Please discontinue my advertisement, as I have sold out all the stock. The large number of replies I received testifies to the value of your paper as an advertising medium.

Yours,

F. E. PALMER.

THE HIGHEST NOTE.

Horticulture Publishing Co.:—

The remark was made to me a short time ago, that the horticultural interests of this country had never yet shown that they could either produce or would support a high class trade paper. Your efforts to bring out the possibilities in this direction doubtless strike the highest note that has yet been reached.

Horticulture is bringing to the front again the devotion, enterprise and achievement which were either lying dormant or were being neglected. This is not only to the credit of Boston, but to the advancement of horticultural interests in their widest import and application.

Feeling quite sure that as your motives are apprehended, they will appeal to all classes of the craft, and draw out their full support, I remain,

Yours very truly,

H.

Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. If our own retail sales are any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the flowers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers. Its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will outboom that popular variety, Mrs. M. A. Patten, three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations and are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

**Fieldgrown plants from ground,
\$15 00 per 100.**

F. R. PIERSON CO.
Tarrytown-on-Hudson, N. Y.

MUSHROOM SPAWN

If you want FRESH MUSHROOMS you must have FRESH MUSHROOM SPAWN. My importations of the best ENGLISH MILLTRACK SPAWN has just arrived—and my regular monthly shipment of PURE CULTURE SPAWN is arriving this week. Price:

ENGLISH MILLTRACK MUSHROOM SPAWN

Per lb. 10c.; 10 lbs. for 75c.; \$6.00 per 100 lbs.

PURE CULTURE MUSHROOM SPAWN

Per lb. 15c.; 10 lbs. for \$1.25; \$10.00 per 100 lbs.

ARTHUR T. BODDINGTON

SEEDSMAN

342 West 14th Street, NEW YORK CITY, N. Y.

In writing advertisers, mention Horticulture

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

Field Grown Plants

	Per 100
1000 Fair Maids.....	\$5.00
500 Challenger.....	4.00
300 Harry Fenn.....	4.00

C. WARBURTON
FALL RIVER, MASS.

The H. WEBER & SONS CO.
CARNATIONS
OAKLAND, MARYLAND

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

Daisies, Daisies and Daisies

We are headquarters for MARGERITEN. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in full quantity October 1st to July 1st.

FLETCHER of AUBURNDALE.
Stall 1, Boston Flower Market, Park St.

CARNATIONS Plants from the Field

VESPER QUEEN LOUISE FLORA HILL HARLOWARDEN JOOST PROSPERITY

Prices on application. State quantity you can use of each variety.

LEO NIESSEN CO., 1217 Arch St., PHILADELPHIA, PA.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.
Joliet, Ill.

ROBT. C. PYE

Carnation Grower

NYACK, N. Y.

Pansy Seedlings

The very choicest strains, mixed, \$3.00 per 100.

Separate Colors, lavender, yellow and white, \$3.50 per 100. CASH WITH THE ORDER.

J. CONDON, Florist,
734 Fifth Avenue, BROOKLYN, N. Y.

PAEONIES

FESTIVA MAXIMA, largest and best of all paeonies, white,

3-5 eyes \$5.00 per doz. \$35.00 per 100

7-10 " 7.00 " 70.00 "

RICHARDSON'S RUBRA SUPERBA, brightest red, best keeper, producer and pro line.

3-5 eyes \$3.00 per doz. \$30.00 per 100

7-10 " 4.00 " 40.00 "

FRANCES ORTEGAL, very deep rich crimson. Large and extremely prolific.

3-5 eyes \$2.00 per doz. \$20.00 per 100

7-10 " 3.00 " 30.00 "

Good Varieties mixed colors, not truly named

\$1.50 per doz. \$15.00 per 100.

CHICAGO CARNATION CO., JOLIET, ILL.

DAHLIAS

ONE HUNDRED AND THIRTY ACRES.

Roots and blooms in any quantity.

L. K. PEACOCK, Inc.
ATCO, N. J.

HORTICULTURE

VOL II

SEPTEMBER 30, 1905

NO. 14

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	Page.
FRONTISPIECE—Cliveden.	
BEFORE AND AFTER—Illustrated.....	343
CLIVEDEN—David Lumsden.....	343
BRITISH HORTICULTURE—W. H. Adsett.....	344
ADIANTUM CROWEANUM—David McIntosh....	345
SPRAYS vs. SINGLE-STEMMED CHRYSANTHE- MUMS—Edwin Lonsdale.....	345
EDITORIAL	346
NEWS OF THE CLUBS AND SOCIETIES	
Chrysanthemum Society of America.....	348
Massachusetts Horticultural Society.....	348
American Civic Association.....	348
Newport Horticultural Society.....	348
New Haven County Horticultural Society.....	348

	Page.
CUT FLOWER MARKET REPORTS	
Boston, Buffalo, Chicago, Newport, Philadel- phia, San Francisco.....	353
SEED TRADE.....	358
MISCELLANEOUS	
Bonora	347
An Elaborate Decoration.....	347
Massachusetts Law Relating to Gypsy and Brown-tail Moths.....	347
News Notes.....	347-349
Luther Burbank Honored.....	347
Obituary	347
Personal	347
Long Island Musings.....	348
Scale Remedy.....	349
Greenhouses Building or Projected.....	358
List of Patents.....	358
Catalogues Received.....	358
Business Changes.....	358

LOCAL REPRESENTATIVES

BUFFALO, N. Y.—E. C. Brucker, 385-87 Elliott St.
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INDIANAPOLIS, IND.—George B. Wiegand, 1610 N. Illi-
nois St.
LOUISVILLE, KY.—F. L. Schulz, Jr., 1325 Cherokee Rd.
MONTREAL—William Cooper, 568 St. Paul St.

NEWPORT, R. I.—David McIntosh, Ledge Road.
PHILADELPHIA, PA.—George C. Watson, 1614 Ludlow
St.
SAN FRANCISCO, CAL.—Luther Monnette, 1100 Van
Ness Av.
WASHINGTON, D. C.—Z. D. Blackistone, 14th and H
Streets, N. W.

BULB CATALOGUE 1905

PICOTEE TULIPS
"MAIDENS BLUSH"

COPYRIGHT 1905 BY

R. & J. FARQUHAR & CO.
667 SOUTH MARKET ST.
BOSTON, MASS.

The above is a fac-simile greatly reduced in size of our Catalogue Cover for the present Autumn. We offer in this Catalogue the choicest and most complete assortment of Winter and Spring flowering bulbs and roots, coming to the United States from Holland. Copies have been mailed to customers and will be to others upon application by letter.

R. & J. FARQUHAR & CO., 6 & 7 South Market St.,
BOSTON, MASS.

Burpee's Seeds

PHILADELPHIA

Blue List of Wholesale Prices mailed only to those who plant for profit.

STERILIZED SHEEP MANURE
\$20.00 a TON
100 Lb BAC \$1.25

WM. ELLIOTT & SONS
201 FULTON ST., NEW YORK

FIRST QUALITY FRENCH and DUTCH BULBS

Full Bulb Price List on request.

Joseph Breck & Sons, Corp.
Seeds, Florists' Supplies, and Agricultural Hardware
47-54 NO. MARKET ST., BOSTON, MASS.
In writing advertisers, mention Horticulture

THOS. J. GREY & CO.
AGRICULTURAL IMPLEMENTS
SEEDS

FERTILIZER, GARDEN and LAWN SUPPLIES
We carry a full line of high grade parts, seeding machines
32 SO. MARKET ST., BOSTON
In writing advertisers, mention Horticulture

TO BUYERS

Patronize our advertisers, they will treat you right

Thorburn's Bulbs

All the Holland Bulbs

Lilium Harrisii
Lilium Longiflorum
Roman Hyacinths
Paper White Narcissus, etc.
Wholesale Price List Now Ready

CYCAS REVOLUTA at \$8 per 100 lbs.

J. M. Thorburn & Co.
36 Cortlandt St., New York
In writing advertisers, mention Horticulture

WHITE CALLAS

To clean up a small surplus, we offer sound bulbs at the following low prices

	Doz.	100	1000
MAMMOTH	\$1.40	\$10.00	\$95.00
EXTRA SELECTED	1.25	8.00	75.00
FIRST SIZE	.85	6.00	55.00
SECOND SIZE	.65	4.75	42.50

Special 5 per cent discount for cash with order

HENRY F. MICHELL CO.
Importers and Growers,
1018 Market St., Philadelphia, Pa.

IMPATIENS HOLSTI

The latest and best pot plant for Christmas

We can offer as long as they last strong plants in 2 1/2 inch pots

\$2.50 per dozen \$15.00 per 100

Description of above plant will be found in our Wholesale Bulb Catalogue; free on application.



W. W. Rawson & Co.
SEEDSMEN

12 and 13 Faneuil Hall Square
BOSTON, MASS.



BULBS

and PLANTS
Ralph M. Ward & Co.
12 West Broadway New York

**HELLER'S
MICE
PROOF
SEED
CASES.**

SEND FOR
CIRCULARS
Heller & Co.
MONTCLAIR, N. J.

Before and After



The two pictures herewith presented show the home of Mr. W. W. Denegre at Manchester, Mass., before and five years after planting and improvement under the care of the gardener, H. W. Clark. The plantation of native sumachs at the left and below the large pine is one of the most beautiful features, a living example of the effectiveness of well-placed native shrubbery in the

adornment of country estates. The exterior of the house is "slap-dashed" in Spanish-American style and forms a good surface for clinging vines. The tubs on the walls are made of gasoline barrels cut in halves. The tubs thus made are covered with wire and treated in the same way as the house and will last as long as the house. They have been in use for seven years and are as sound as the day they were made.

Cliveden

(See Frontispiece.)

This beautiful Thames-side estate of Mr. Wm. W. Astor commands a view of the river Thames and surrounding country from a considerable elevation and the mansion itself is a majestic structure; erected by the Duke of Sutherland from designs by Barry in 1849. But it is the terrace, not the mansion, that we as horticulturists are particularly interested in, and it is simply as a plea for terraces that this article is presented to Horticulture's readers. Of course we know that in many instances persons have disfigured their properties for the mere sake of having a terraced garden, yet many residences would become further beautified—even made—by having a well-designed terrace. Terraced gardens allow for an endless variety of architectural work, apart from that of the house, and have naturally been much in favor with architects and artists who have followed the calling of landscape gardeners. In advocating this kind of gardening I am not defending any architect or landscape gardener insisting that a house, no matter what its position, should be fortified by terraces, but I do say that many a property could be further beautified by a well-kept terrace garden.

Those who have made visits to Europe on horticultural business will all have heard of and a great many seen Cliveden. In the late Duke of Westminster's time the late Mr. Fleming, as many of the readers of these lines will remember, made the spring and early summer

gardening at Cliveden famous, and during my last visit to Cliveden in May, 1893, spring bedding was still a strong feature and everything was then carried out in perfect detail by the then able gardener and estate manager, Mr. Richard Nisbet.

The reader on looking closely into the picture will observe how well the terrace walls are furnished with creepers. I will now endeavor to describe the plants and vines used: *Ampelopsis Veitchii*, *Clematis montana*, *Magnolia grandiflora*, *Clematis Jackmanii*, *Henryii* and *coccinea*, *Cotoneaster buxifolia*, all of which were in thriving condition. I do not wish the reader to be carried away with the idea that the terrace I have mentioned is simply an elevated structure to enable persons to get a better view of the gardens and their surroundings. It also acts as a valuable storage for the various plants used in summer to adorn and beautify the estate. On the right hand side as well as on the left of the picture (which unfortunately has been vignettted off) are two very large storehouses with glass fronts, where the large bay trees, orange trees, etc., are kept during the winter months. They serve as well for storage for lawn-mowers, ladders and various tools constantly in use on the estate, making the structure useful as well as ornamental.

I feel I cannot close my remarks without trying to describe a little of the spring bedding carried on at Cliveden. The prettiest piece I think was that seen

below the terrace, where a border long and broad of Vandyke shape, backed by the creepers described above on the wall, is raised over twelve inches above the adjacent ground level and faced with ivy always kept trimmed into shape. At the front is a broad band of *Aubrietia Hendersonii* with its wealth of flowers, then a wide belt of *Viola Yellow Princee Improved* with circles of *V. Cliveden Purple* dotted about it and backed by *V. Sky-lark* and lines of yellow and dark brown wallflowers. The large beds in the parterre were gay with tulips, several thousands in each bed, on a ground work of violets and other plants to bloom later and continue the display through the season. A large circular bed is planted with many thousands of *Silene pendula*, which gives a mass of color not soon to be forgotten by the visitor looking from the windows of the mansion or from under the canopy on the terrace. The large vases noticeable in the picture are usually filled with large plants of *Geranium Tom Thumb*, one house being devoted to keeping these over during the winter months, which keep up a succession of flower throughout the year.

David Laird

British Horticulture

THE PREMIER SCOTCH SOCIETY

This has been the week of the great international horticultural exhibition held in Edinburgh by the Royal Caledonian Society. This society dates back to 1809, and is one of the oldest organizations of the kind in Great Britain. The object of the founders was "to encourage and improve the cultivation of the best fruits, of the most choice flowers, and of the most useful culinary vegetables." The society at one time had an experimental garden, but in 1865 it was taken over by the Board of Works Commissioners to be amalgamated with the Royal Botanic Gardens. Some of the evidences of the society's work are still to be seen in the garden. Several noted Scotch horticulturists have been prominently associated with the society, including Dr. Neill, who for over 40 years acted as the secretary. He bequeathed £500 to the funds, and the interest on this sum provides the Neill prize, which is much coveted by Scottish gardeners. Some of the early prizes given by the society are treasured up by descendants of the recipients. A collection of these recently photographed included a snuff-box, cream jug, and silver spoons. Many of the trophies have been traced to the descendants of exhibitors now distributed in America, New Zealand, and South Africa. Since the year 1877 the society's shows have been held in the Waverley market, and this immense building is not sufficient to accommodate the increasing proportions of the autumn exhibitions.

AN INTERNATIONAL COLLECTION

The classes numbered 254 at this year's show, and the exhibits totalled 1860, these being of a thoroughly representative character. Grapes, as usual were a special feature. The challenge trophy in this section was carried off by Mr. J. Beisant for eight magnificent bunches. In addition Mr. Beisant obtained a "Hogg" medal, awarded by the English Royal Horticultural Society, and the cup presented by King Edward for the best exhibit in the competitive fruit class. The varieties staged were Appley Tower, Muscat of Alexandria, Chasselas Napoleon, and Madresfield Court. The only exhibit of a new grape was one sent by Mr. Thos. Bradshaw, gardener to the Marquis of Downshire. This has been named *Marchioness of Downshire*, and is a seedling from Muscat of Alexandria. The heaviest bunch of black grapes was a fine sample of *Barbarossa*. Messrs. Vil-morin Andrieux and Co. of Paris were among the exhibitors. They staged a comprehensive collection of vegetables as indicating the numerous kinds required to meet the Parisian tastes. Altogether the society scored another triumph. There was, however, a shadow hanging over the bright outlook, for on the opening day there was laid to rest Mr. David Laird, a leading Edinburgh nurseryman and a member of the Council of the Society, who was accidentally drowned a few days previously in Loch Awe. Mr. Laird was one of the best known and most popular men in the horticultural world.

MR. ECKFORD'S TESTIMONIAL

The shilling fund raised to present a testimonial to Mr. Eckford, the "Grand Old Man" of the sweet pea world, realized the sum of £58 17s. 9d. The present took the form of a handsome tea and coffee service and salver. This was accompanied by an artistically illuminated address, in which was recorded an appreciation of Mr. Eckford's services to horticulture, and the good wishes of the subscribers. Unfortunately Mr. Eckford's ill-health prevented the presentation being publicly made as was intended by the promoters. The gift was lately taken to Mr. Eckford at his residence at Wem, and he was naturally very gratified at the tangible expression of good wishes on the part of his many admirers. Mr. Eckford was, of course, exceedingly disappointed that he was unable to meet the subscribers, and also at being prevented from attending the Edinburgh show as he intended. The subscription list contained a large number of representative names of British and American horticulturists, evidencing the high esteem in which the recipient is held on both sides of the Atlantic. His big circle of friends will unite in wishing him a return to his former health and vigor, and that he may yet enjoy a long period of usefulness in the special sphere in which he has hitherto distinguished himself.

NUT GROWING

Recently I had a chat at Boscombe with Mr. J. O. Cooper, who is the leading authority of nut culture in

this country, and who was selected by the Royal Horticultural Society to read a paper on the subject at one of their meetings a few years ago. Mr. Cooper for a number of years has been engaged in the business of supplying trees to the trade, these having been raised on his plantations at Calcot near Reading. Nut growing, Mr. Cooper informed me, is on the increase in this country, but there is still room for a large extension of this branch of growing, which he considers is of a very profitable character. At Calcot 16 varieties are grown, including Webb's prize cob filbert, which he regards as one of the best to grow. It is very hardy, will do on almost any soil, is an excellent cropper, and improves by keeping. Mr. Cooper is a warm advocate of the greater use of nuts. He is himself a hale and active octogenarian, and attributes his good health to the prominent part which nuts have always taken in his dietary. It is a singular fact that Mr. Cooper, who is an architect by profession, adopted the business as a hobby, always being fond of gardening, and he took over the plantation from Mr. Webb, his father-in-law, the raiser of Webb's prize cob filbert, Emperor cob, Eugenie, Princess Royal, Garibaldi and the Duke of Edinburgh. The last named received a first-class certificate from the Royal Horticultural Society. As many as ten tons of nuts have been grown at Calcot in one season.

W. H. Adsett.

London, England, Sept. 16th, '05.

Adiantum Croweanum

Although Adiantum Croweanum is a stronger grower and is consequently somewhat coarser than A. cuneatum, it possesses nevertheless qualities commending it to both florists and private growers. The strong fronds of Croweanum are admirably adapted for use in large decorations where cuneatum because of its delicate construction would be unsuitable, and for the same purpose Croweanum has the advantage in being capable of surviving longer than the older variety. Another point in favor of Croweanum is that the fronds retain their fresh lustre for a longer period after full development than cuneatum does and this in itself is quite a consideration to anyone knowing what little value is placed on fronds of Adiantum cuneatum showing signs of age.

David McIntosh. Edwin Lonsdale

Sprays vs. Single-stemmed Chrysanthemums

Dear Mr. Editor:—I was interested in what Mr. Geo. Moore said under the caption of "Freaks" in Saturday's issue of HORTICULTURE, especially that referring to chrysanthemums; when he said they "are not so pleasing when grown on a single tall stem with a flower on the top which might be mistaken for a floral mop, as are specimen plants with graceful stems and moderate sized flowers. It is true that the large blossoms answer admirably for large decorative work but the smaller ones appeal more directly to æsthetic tastes."

Those sentiments have long before been expressed, but without the desired effect for there are fewer sprays sold now I believe than there were fifteen years ago, except possibly it be there are more sprays of the pompons sold now than there were then, not because they are sprays, however, but because they are the dainty pompons.

It is about that long ago since in Professor Bailey's "Annals of Horticulture," the undersigned had this to say: "The demand for large flowers—those that have been grown on plants that have been disbudded to a single bud on stout erect stems—still continues. The artistic mind deplores the fact preferring sprays disbudded to not less than three buds. Flower-buyers generally have not reached that point, preferring the more massive blossoms, presumably because there is more evidence of skill in the production of the larger blooms than the more artistic sprays. We hope the time is not far distant when mere size will not determine the value of a flower.

Has the time yet arrived? I think not, and it is apparently just as far off today as it was when the above was penned nearly fifteen years ago. That is to say, as far as the Japanese varieties are concerned. It is true there is more demand for the sprays of the pompons, but a solitary flower of a pompon would not satisfy a flower buyer as much as would a flower of any of the Japanese as grown for cut flowers today. Nor is the demand for sprays of pompons anything like as great as is the demand for the larger flowers.

Speaking from a commercial viewpoint I believe now the demand for the larger flowers indicates the better business. I would like to know what the growers and retailers have to say along these lines.

Fall Advertising Is Ripe and Ready to Pick

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

A desirable shrub

Hydrangea paniculata grandiflora is well worthy of all the popularity it enjoys but there is something about the plain paniculata which places it, as a lawn shrub, in the estimation of many, away above the grandiflora with its more conspicuous heads of bloom. The flower heads are of little value for cutting for florists' use but the contour and expression of the plant taken as a whole make it boldly effective as an isolated specimen in garden adornment and its good qualities should be better known than they are.

Richmond Rose

Last season we made bold to say a good word for the new forcing rose Richmond. Nothing has transpired since to change our opinion as to its value. It is far in the lead over all crimson thurs far introduced and bids fair to do to Liberty what Liberty did to Meteor. It has all the good qualities including rich perfume. With Richmond, Killarney, Wellesley, La Detroit, Chatenay and several other aspirants of more or less prominence it would seem that commercial rose growing for cut flowers is slowly but surely getting ready to break away from the "rule of three."—Beauty, Bride and Bridesmaid.

American Civic Association

In another column we publish the program for the sessions of the American Civic Association at its first annual meeting, which is to be held at Cleveland, Ohio, next week. It is a noble and beneficent work which this organization seeks to do. In the making of cleaner cities, happier homes, better children and better citizens, practical horticulture, with its refining influence, is perhaps the most indispensable factor, and those who find their life work among trees, fruits, flowers and verdure have a vital interest in the purposes and labors of the American Civic Association. May its sessions draw a large attendance and every feature of the meeting at the beautiful Forest City by the lake conduce to a successful prosecution of the great mission to which it has pledged itself.

Roses and mildew

Commenting upon the comparative freedom from mildew of the hybrid tea roses produced by M. Pernet Ducher, a writer in The Garden attributes this desirable immunity to the fact that these varieties have very shiny leaves. He instances Mme. Abel Chatenay and Souvenir de Mme. Eugene Verdier as the two most addicted to mildew and calls attention to the lack of shiny foliage in each case. Observant forcers of greenhouse roses have not overlooked this little point so essential in their work. Shiny foliage is sure to be thick and hard—the reverse soft and thin. It is not always a question of varieties as the product of different growers varies on a given variety and the careful grower always aims to get hard glossy foliage on his plants. There is, of course, a great difference in varieties—the hybrid teas as a rule having the best of it. In hybridizing for new varieties the wise experimenter will take this into consideration in selecting parents.

The golden privet

A subscriber calls our attention to an article on "The Golden Privet" published recently in The Horticultural Advertiser and suggests the value of this plant as a decorative shrub. A strong sentiment prevails in some quarters against the use of any and all trees and shrubs of abnormal color. This prejudice we do not think is justified although recognizing that there are many so-called variegated things far inferior to the green types in effectiveness and also that instances of the misuse and over use of such material are not infrequent. As to the privet in question the writer quoted does not specify the species. If it is the well-known beautiful ovalifolium or "California" privet of which a very brilliant and improved form of the golden variegated type has been recently disseminated we should hesitate about advising its use outside, anywhere north of New York City, as ovalifolium has too often proved unreliable in that latitude. For florists' use, however, in balcony boxes and similar places where absolute hardness is a minor consideration this bright-foliaged shrub should prove most desirable.

Annuals in the border

Recognizing that a flower garden is essentially artificial, no matter how informally it may be arranged, the problem to be solved is, in many instances, how to most closely approach a natural aspect without at the same time giving an impression of jumbled disorder or neglect. For this purpose annual flowers are pre-eminently well adapted. Some of them seem to have almost an instinct for fitting themselves into places in such a manner as to produce pleasing results which give the desired impression of the absence of human intent in their planting and training, without any suggestion of inappropriateness as part of a picture in which human agency is otherwise strongly apparent. How admirably a colony of coreopsis seedlings will fit itself into the garden vista! Clumps of portulacca find lodgment on hot stony spots year after year when once the seed has been distributed in the neighborhood and he is indeed a merciless gardener who will disturb them. Sweet alyssum, lobelia, rudbeckias and a score of such self-seeders are constantly appearing in the mixed border and it is remarkable how seldom they appear out of place to the artistic eye. Nicotiana Saunders promises to add another gem to this group of spontaneous visitors and if it should thus supplant some of the ill-fitting material with which our flower borders have been overdecorated in the past, garden beauty will not suffer in consequence.

BONORA.

Knowing how often horticulturists have been deluded with overpraised fertilizing compounds we have been in no haste to commend to our readers the preparation above named, preferring to ascertain something to its merits before even opening to our advertising columns. We have now satisfied ourselves that Bonora is just what it is represented to be—a plant food of the highest excellence, prepared from the formula of a German scientist. The large number of unqualified testimonials from widely-known and respected gardeners make it a simple matter for the introducers to guarantee results, as they do. For chrysanthemums and plants of similar growth requiring generous feeding Bonora seems to fill an important place and we cheerfully recommend our readers to give it a trial.

AN ELABORATE DECORATION.

A description of the Schwill-Schoelkopf wedding decorations at Buffalo, early in September, will possibly be of interest to our readers as it was one of the most extensive and elaborate ever attempted in Western New York State.

The ceremony was held in the evening. Over the altar was a canopy of wild smilax, and white asters festooned from ceiling to side walls,—the rear of the church being banked with oak, maple leave and ferns. The aisle by which the bridal party approached the chancel was guarded by ropes of white satin fastened to each pew by a bouquet of gladiolus.

Standing at the entrance of each pew for a distance of the first 24 pews back, was a 9-ft. pillar of asters, and pink and white Japanese lilies. The window embrasures were banked with ferns and cut flowers, and the altar was hidden beneath a mass of flowers.

The reception hall was a bower of roses, ferns, wild smilax, set off with asters and Japan lilies. In the front parlors the fire-places were screened with palms and ferns, and the rooms was a profusion of autumn flowers, the electric light globes partly hidden with shades of oak and maple leaves.

In a huge tent, 40x120, on the lawn were the tables beautifully decorated with white and pink flowers. The marquee was lighted with incandescent lamps, the wiring and lights cleverly concealed with oak and maple foliage which ran through centre to supporting poles in festooning.

Rows of evergreen trees hedged the roadways and paths on either side (having been set out for the purpose) and entwined in the foliage were many tiny lights, and many lights glinted from the flower beds. Nature has supplied a beautiful background of salvias and dahlias, which grew almost to the windows, and made an elegant effect.

The church was decorated under the supervision of E. A. Butler & Son of Niagara Falls, and the house decorations under the direction of W. J. Palmer & Son, Buffalo, N. Y.

MATTER OF SHAPE.

"What have you in the shape of cucumbers?" asked the would-be customer as he entered the grocery.

"Nothing but bananas, sir," answered the new clerk.—Chicago News.

MASSACHUSETTS LAW

Relative to the Gypsy and Browntail Moth.

(Extract from Chapter 381, Acts of 1905.)

Section 6. The mayor of every city and the selectmen of every town shall on or before the first day of November in each year, and at such other times as he or they shall see fit, or as the state superintendent may order, cause a notice to be sent to the owner or owners, so far as can be ascertained, of every parcel of land therein which is infested with said moths; or, if such notification appears to be impracticable, then by posting such notice on said parcels of land, requiring that the eggs, pupae and nests of said moths shall be destroyed within a time specified in the notice.

When, in the opinion of the mayor or selectmen, the cost of destroying such eggs, pupae and nests on lands contiguous and held under one ownership in a city or town shall exceed one half of one per cent of the assessed value of said lands, then a part of said premises on which said eggs, pupae or nests shall be destroyed may be designated in such notice, and such requirement shall not apply to the remainder of said premises. The mayor or selectmen may designate the manner in which such work shall be done, but all work done under this section shall be subject to the approval of the state superintendent.

If the owner or owners shall fail to destroy such eggs, pupae or nests in accordance with the requirements of the said notice, then the city or town, acting by the public officer or board of such city or town designated or appointed as aforesaid, shall, subject to the approval of the said superintendent, destroy the same, and the amount actually expended thereon, not exceeding one half of one per cent of the assessed valuation of said lands, as heretofore specified in this section, shall be assessed upon the said lands; and such an amount in addition as shall be required shall be apportioned between the city or town and the Commonwealth in accordance with the provisions of section four of this act. The amounts to be assessed upon private estates as herein provided shall be assessed and collected, and shall be a lien on said estates, in the same manner and with the same effect as is provided in the case of assessments for street watering.

NEWS NOTES.

S. S. Skidelsky has secured the control of a fine sport from Enchantment carnation, of a deep pink color similar to Frances Joost.

Boston visitors this week include J. A. Peterson and Mrs. Peterson, Cincinnati, O.; C. B. Weathered, New York, and S. S. Skidelsky, Philadelphia.

Senator George C. Perkins has presented to Golden Gate Park, San Francisco, offshoots from a willow tree which stands over the grave of George Washington at Mount Vernon, Va. This historic tree is the outgrowth of a twig brought from a willow that stood over the grave of Napoleon at St. Helena.

LUTHER BURBANK HONORED.

Over two hundred representative people from all over the State of California were present at the banquet given to Luther Burbank at the Palace Hotel, San Francisco, under the auspices of the California State Board of Trade on the evening of the 14th instant. Mr. Burbank looked oddly enough, for he was clean shaven, and he had always worn a beard. John McNaught, manager of The Call, one of the speakers, said that Burbank had discussed himself by shaving his monstache before he came to the dinner last the peaches and plums on the table should recognize him and applaud the man of whose grafting California is proud. Mr. McNaught added that we did well to praise the man who knew so much about plant life that he could make the Carnegie steel plant bear fruit.

Other speeches were made by Judge Chipman, president of the State Board of Trade, Governor Pardee, U. S. Senator George C. Perkins, David Starr Jordan, president of Stamford University, Col. John P. Irish, Rev. Jacob Voorsanger, Judge Burnett and William H. Mills, toastmaster.

Burbank's own speech was a surprise. If he had talked of his work, of which the whole nation is proud, he would have been listened to with loving respect, but when he turned the quiet simplicity of his personality to the subject of child life he won at once the sincere attention of every man in the room. He referred to those present as "his esteemed but deluded friends," but when the last compliment had been made, and their recitation occupied three hours, those who were present felt that the fame of the man was more than the flattery, far outranking any words of praise that might be voiced.

OBITUARY.

Nathaniel E. Baker.

Nathaniel E. Baker, an old and respected florist of Lawrence, Mass., died suddenly at his home in Methuen on Sept. 10, aged 68 years.

F. C. Goble.

F. C. Goble, many years in business as a florist in Verona, N. J., died suddenly on September 12. He leaves a widow and four children.

Andreas Loeffler.

Those who attended the Washington convention of the S. A. F. will learn with sadness of the death of Mr. Loeffler, on whose lawn the unique entertainment was given on the first evening of the convention. Mr. Loeffler was the father of Mrs. W. F. Gude. He was prominent in social and business circles in Washington and highly esteemed. His death was very sudden, from heart failure.

PERSONAL.

M. A. Blake, formerly of the Rhode Island State College, has been made instructor in horticulture at Amherst and Massachusetts Agricultural Colleges.

NEWS OF THE CLUBS AND SOCIETIES

CHRYSAETHUM SOCIETY OF AMERICA.

President Duckham has announced the committees to examine seedlings and sports on dates as follows: October 7th, 14th, 21st and 28th; November 4th, 11th, 18th and 25th, 1905.

Exhibits to receive attention from the committees must in all cases be prepaid to destination, and the entry fee of \$2 should be forwarded to the secretary not later than Tuesday of the week preceding examination, or may accompany the blooms. Special attention is called to the rule requiring that sports to receive a certificate must pass three committees.

New York.—Eugene Dailledouze, chairman, care of New York Cut Flower Co., 6th avenue and 26th street; Arthur Herrington, Thomas Head.

Philadelphia, Pa.—A. B. Cartledge, chairman, 1514 Chestnut street; John Westcott, Wm. K. Harris.

Boston, Mass.—E. A. Wood, chairman; Wm. Nicholson, James Wheeler. Ship to Boston Flower Market, care John Walsh.

Cincinnati, O.—R. Witterstaeter, chairman; James Allen, Wm. Jackson. Ship to Jabez Elliott Flower Market, care Janitor.

Chicago, Ill.—J. S. Wilson, chairman; J. B. Deamud and Phil Hauswirth. Ship care of J. B. Deamud, 51 Wabash avenue.

The Official Scales of the C. S. A. are as follows:

For Commercial Purposes.

Color	20
Form	15
Fullness	10
Stem	15
Foliage	15
Substance	15
Size	10
Total	100

For Exhibition Purposes.

Color	10
Stem	5
Foliage	5
Fullness	15
Form	15
Depth	15
Size	35
Total	100

F. H. LEMON, Secretary.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The preliminary schedule of prizes for the spring exhibition of the Massachusetts Horticultural Society, March 22-26, 1906, has been issued and copies thereof may be obtained by addressing the secretary, W. C. Rich, Horticultural Hall, Boston. The usual liberal premiums are offered for greenhouses, plants, ramblers and other roses, cyclamens, cinerarias, spring-flowering bulbs, Easter flowering plants, etc., in the plant classes, and roses, carnations, violets, orchids, etc., in the cut-flower classes. Winter vegetables are also liberally provided for.

AMERICAN CIVIC ASSOCIATION.

The first annual meeting of this reorganized society will be held at Cleveland, O., on October 4, 5 and 6. The program of proceedings is as follows:

Wednesday, October 4.—Address of welcome, Hon. Tom L. Johnson, Mayor of Cleveland; address by Ambrose Swasey, response by J. Horace McFarland, president; "One Year's Work," Clinton Rogers Woodruff; report of treasurer, William B. Howland; report of the nominating committee, H. P. Kelsey; election of officers. Second session at 2.30 p. m.—"Improvement Work Among Children," Dick J. Crosby, presiding; "The Cleveland Home Gardening Association," Starr Cadwalader; "Juvenile Civic League Work," Mrs. Caroline Bartlett Crane and Prof. William C. Langdon; "The Social Settlement and Its Work Among Children," Graham R. Taylor; "Playgrounds and Public Recreation," Joseph Lee; "Children's Gardens, the Educational Application," illustrated, Dick J. Crosby; 8 P. M.—"Cleveland's Contributions to Civic Advancement," L. E. Holden; "Recent Municipal Improvements," illustrated, Frank Miles Day.

Thursday, 9.30 A. M.—"The Public Library as a Factor in Civic Improvement," Frederick M. Crunden; "Carnegie Libraries as Civic Centers," illustrated, Theodore W. Koch; Symposium on ways and means. 2.30 P. M.—Department meetings, including reports and election of officers, Mrs. Charles F. Millsbaugh, presiding. 8 P. M.—"First Steps in Improvement Work," illustrated, J. Horace McFarland; "The Improvement of Washington," Charles Moore.

Friday, 9.30 A. M.—"Women as a Factor in Civic Improvement," Mrs. Charles F. Millsbaugh; "The Improvement of the Home," Mrs. Gabrielle S. Mulliner; "What an Individual Did in One Community," Mrs. Sylvia C. Baylis; "Outdoor Art," W. H. Manning; "The Arts and Crafts as Factors in Civic Improvement," Mrs. M. F. Johnston. 2 P. M.—Park and city making department meetings, addresses by Prof. T. H. MacBride, C. W. Garfield, Ossian C. Simonds. 9 P. M.—Formal reception by Chamber of Commerce.

NEWPORT HORTICULTURAL SOCIETY.

A meeting of the Newport Horticultural Society was held last Wednesday evening. President Sullivan, in the chair. The secretary presented his report of the exhibition, which, being altogether satisfactory, was adopted and the premiums awarded ordered paid.

Joseph Gibson delivered an address on herbaceous plants, making special and exceedingly pointed reference to the term "herbaceous" as commonly denoting perennials, claiming that the term itself was not explicit enough to answer the purpose for which it is intended.

A mammoth pepper from Vaughan's Seed Store was awarded the society's certificate of merit as a novelty.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

At the meeting of this society on Tuesday evening, Sept. 19, there was an elegant exhibition of plants and flowers. Dahlias were especially prominent and many fine varieties were shown by J. H. Macdonald, John Murray, W. H. Beattie, Ernest Carroll, W. Schmidt, J. H. Slocombe, R. T. Pryde, Frank Duffy. Other contributors were A. J. Thompson and F. Thomas. Certificates were awarded to W. H. Beattie and J. H. Macdonald.

NOTES.

In addition to the special awards mentioned in our issue of last week, at the annual exhibition of the Massachusetts Horticultural Society, a silver medal was given to Jackson Dawson for a very extensive collection of fruiting pyruses.

The third annual exhibition of the Huntington Horticultural and Agricultural Society will be held at Huntington, L. I., N. Y., on Thursday, Oct. 5. One rule in the schedule we do not remember to have seen elsewhere gives permission to any dissatisfied competitor to lodge a protest against the judges' decision, but he must deposit \$5 therewith and if his claim be found groundless he must forfeit his deposit.

LONG ISLAND MUSINGS.

If you are the owner of a range of greenhouses and should chance to be in the neighborhood of Flushing, New York, take a few minutes of time and visit the rose and carnation houses of A. L. Thorne. The roses are healthy and promising, the Prosperitys, Fair Maids, Queens and Lawsons likewise, and very nice to see, but the principal object-lesson to which we wish to call attention is the immaculate cleanliness and order which characterize the place. Paths, benches, plants, absolutely clean—not a bit of rubbish anywhere. We know plenty of florists' establishments that are different—so different.

The practicability of keeping old rose plants in commission for several years under ordinary forcing conditions is well demonstrated at John H. Taylor's place at Bayside. Mr. Taylor has been an advocate of this method for many years and his houses at the present time are in a condition to support any claim he may make on this subject. Another interesting cultural note the visitor to this place is sure to make concerns the manner of growing Liberty roses. These are cut down almost to the ground every fall, all the flowers being produced on new shoots from the bottom of the plant. The original plants sold to Mr. Taylor by Mr. Asmus are still in good working order, under this method, and are full of promise.

ALL SOLD OUT.

S. Sudbury, Mass.

We have no more plants to sell, so stop the ad.

COOLIDGE BROS.

September 18.

A SCALE REMEDY.

News from the College of Agriculture of the University of California is that effective remedies have been found for the "brown apricot" and the "San Jose" scale, the two most destructive insect pests that infest California orchards. After spending months of intense study and spraying over 1000 acres of trees in experimenting, Professor H. J. Quayle of said col-

lege announces that his efforts have been entirely successful, and that these two pests that have worked such serious damage to California's fruit crop in the past are on the road to extermination.

The brown apricot scale was unknown in California until 1891, although it had baffled all attempts at its extermination in eastern orchards. Since that time it has spread to an alarming extent in the Golden State, becoming more damaging than the San Jose scale, which was at that time attacking California orchards. The field of its operations was at first limited to a small area in northern California, but three years ago it made its appearance in the San Joaquin valley in the west central part of the state, and since that time has wrought destruction all over the commonwealth. Although it is called the "brown apricot," the pest thrives best on prunes, and it is upon this tree that it does its most serious injury.

Professor Quayle has been conducting the fight against this pest for the agricultural experiment station, and has at the same time perfected the remedy for the San Jose scale. His last year's work was principally in Kings County, in the immediate vicinity of Hanford, whither the pest had particularly appeared in the past two years. The San Jose scale attacks a great variety of trees, but its principal inroads have been upon the pear and apple crops of the Kings County section of the state.

As the result of his last twelve months' work just ended, Professor Quayle announces that he has definitely determined the proper proportions for the mixing of the lime-sulphur-salt wash, the remedy commonly employed in fighting the San Jose scale, and has also decided that this remedy is wholly inadequate in combating the "brown apricot" pest. As a remedy for the last-named insect he recommends a compounding of resin, caustic soda, fish oil and water, whose great insecticidal value he has proved.

NEWS NOTES.

A contagious disease that will spread among the swarms of grasshoppers that have wrought so much havoc with California's crops for the past ten years and kill off the pest without the aid of man's devices is the hope of the entomologists at the University of California, who are experimenting with the problem with satisfying success.

An enthusiastic meeting was held under the auspices of the Board of Trade of San Francisco, Cal., on September 20th, to consider the improvement of their city that it may deserve the title of "The Floral City" hereafter. The removal of unsightly hedges, the cultivation of flowers and lawns about residences and the establishment of a city park are features that will have the attention of a special committee. Three lots will be utilized for the new Carnegie Library and the park. The grounds will be attractively laid out and flowers and ornamental shrubs will abound.

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E. J. Goddard, East Greenwich, R. I.
Perry Belmont, Newport, R. I.

Mrs. Helen Fowler, H. E. Drexel, H. H. Rogers, Fairhaven, Mass.

Dr. C. G. Weld, Brookline, Mass.
Geo. W. Vanderbilt, Bar Harbor, Me.

Mt. Desert Nurseries, Hon. Jos. H. Chase, Stockbridge, Mass.

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Pteris tremula, 1 1/2-in. pots	\$3.00
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PERKINS STREET NURSERIES
Roslindale, Boston, Mass.
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It is never too early nor too late
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Best Commercial Introduction for many years
JOHN SCOTT
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NEPHROLEPIS BARROWSII, \$25 PER 100

SCOTTII, 2½ in., . . . 5 " "

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FERNS! 2 1-4 in. Pots

Ten varieties. Fine, well grown stock, suitable for immediate use.

\$3.00 per 100; \$25.00 per 1000.

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824 No. 24th St., PHILADELPHIA

Dreer Special Offer of Seasonable Stock

Araucaria Excelsa

6 in. pots.	12 to 14 in. high.	3 to 4 tiers.	\$.75 each.
6 "	15 to 18 "	4 "	1.00 "
7 "	18 to 20 "	4 "	1.25 "
7 "	24 to 30 "	5 "	1.50 "

The above are the best values we have ever sent out, especially the size at \$1.50 each.

Araucaria Excelsa Clauca

6 in. pots.	13 to 15 in. high.	3 tiers.	\$1.25 each.
7 "	18 to 20 "	4 "	1.75 "
7 "	20 to 24 "	4 to 5 "	2.00 "

Araucaria Robusta Compacta

6 in. pots.	10 to 12 in. high.	2 to 3 tiers.	\$1.25 each.
6 "	12 to 14 "	3 "	1.50 "
7 "	16 to 18 "	3 to 4 "	2.00 "

Asparagus Sprengeri

2 1-4 in. pots.	\$.50 per doz.	\$4.00 per 100.
3 "	.75 "	5.00 "
4 "	1.25 "	10.00 "
8 " pans.	6.00 "	

Asparagus Plumosus Nanus

2 1-4 in. pots.	.60 "	4.00 "
3 "	.75 "	6.00 "

Asparagus Tenuissimus

3 "	.75 "	6.00 "
4 "	1.25 "	10.00 "

Begonia Cloire de Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Begonia Light Pink Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Chrysanthemum Alexandra

The New Paris Daisy

3 "	1.25 "	10.00 "
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Dracæna Fragrans

4 "	2.50 "	20.00 "
5 "	4.00 "	30.00 "
6 "	6.00 "	50.00 "

		Per Doz.	Per 100.
Dracæna Massangeana	5 in. pots.	\$9.00	
" Lindenl	5 "	9.00	
" Terminalis	2 1-4 "	1.00	\$8.00
Farfugium Grande	4 "	2.00	15.00
Ficus Elastica	4 "	3.00	25.00
" "	6 "	6.00	50.00
Nephrolepis Scottii	2 1-4 "	.75	6.00
" "	3 "	1.50	10.00
" "	4 "	3.50	25.00
" "	5 "	6.00	50.00
" "	6 "	9.00	75.00
" "	8 "	15.00	
" "	10 "	18.00	
" Barrowsii	3 "	3.50	25.00
" Piersoni	2 1-4 "	.75	5.00
" " Elegantissima	2 1-4 "	3.00	25.00
" "	4 "	6.00	50.00

Per 1000.

Adiantum Cuneatum	2 1-4 "	\$3.00	\$25.00
" "	3 "	6.00	50.00

Alsophilla Australis	2 1-4 "	8.00	
" "	3 "	10.00	

Ferns in mixture for dishes	2 1-4 "	3.00	25.00
" "	3 "	6.00	50.00

Per Doz. Per 1000.

Pandanus Veitchii, fine plants	6 "	\$12.00	
Petunias, Dreer's Double	3 "	1.25	10.00

For a complete list of Seasonable Stock, including Ferns, Palms, Decorative Plants, Hardy Perennials, Hardy Shrubs, Bulbs, Seeds, etc., see our New Wholesale Price List issued September 1st.

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WHOLESALE FLOWER MARKETS

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CHICAGO Sept. 26	ST. LOUIS Sept. 26	PHILA. Sept. 26	BOSTON Sept. 26
ROSES				
Am. Beauty, Fan. & Sp.	25.00 to 35.00	..... to 30.00	20.00 to 25.00	20.00 to 25.00
Extra	16.00 to 20.00	12.50 to 25.00	5.00 to 10.00	10.00 to 15.00
No. 1	14.00 to 15.00	15.00 to 20.00	10.00 to 12.50	6.00 to 8.00
Lower grades	2.00 to 6.00	3.00 to 12.50	4.00 to 8.00	1.00 to 2.00
Bride & Maid—Fan. & Sp.	5.00 to 6.00	..... to 3.00	5.00 to 6.00	4.00 to 5.00
Extra	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00	3.00 to 4.00
No. 1 and Lower gr.	1.00 to 2.00	2.00 to 3.00	2.00 to 4.00	.50 to 2.00
Liberty, Fan. & Special .....	..... to 1.00	..... to 4.00	5.00 to 8.00	3.00 to 6.00
Ordinary	2.00 to 5.00	2.00 to 3.00	2.00 to 4.00	1.00 to 3.00
Carnot and Kaiserin Fancy ..	5.00 to 8.00	..... to 5.00	5.00 to 6.00	4.00 to 8.00
Ordinary	2.00 to 4.00	2.00 to 3.00	2.00 to 4.00	.50 to 3.00
Golden Gate, Chateaux, Fan.	4.00 to 5.00	..... to 3.00	3.00 to 5.00	2.00 to 4.00
Ordinary	2.00 to 3.00	2.00 to 3.00	1.00 to 2.00	.75 to 2.00
CARNATIONS				
Fancy Class	1.00 to 2.00	2.00 to 2.50	..... to 1.00	1.50 to 2.50
General Class and Lower grades ..	.50 to .75	1.00 to 1.50	1.00 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Cattleyas	50.00 to 60.00	..... to 50.00	..... to 50.00	..... to 50.00
Lily of the Valley	2.00 to 4.00	..... to 3.00	4.00 to 5.00	2.00 to 4.00
Assters	2.00 to 2.00	.50 to 1.50	..... to .35	1.00 to 1.00
Violets	50 to 1.00	..... to 1.00	..... to 1.00	..... to 1.00
Gladoli	2.00 to 4.00	..... to 3.00	2.00 to 3.00	2.00 to 4.00
Dahlias	1.00 to 3.00	2.00 to 6.00	10.00 to 10.00	1.00 to 1.50
Adiantum Cuneatum .....	..... to .75	.75 to 1.00	.75 to 1.00	.75 to 1.00
Crocus .....	..... to 1.00	1.25 to 1.50	1.50 to 1.50	1.25 to 1.50
Smilax	8.00 to 12.00	12.50 to 15.00	10.00 to 15.00	8.00 to 12.00
Asparagus Plumous, strings ..	15.00 to 35.00	35.00 to 50.00	25.00 to 35.00	35.00 to 50.00
Sprenzen, bunches	10.00 to 25.00	25.00 to 50.00	35.00 to 50.00	30.00 to 50.00

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Right prices, prompt returns, etc.

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Orders and Consignments Solicited for

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FANCY CARNATIONS, SINGLE VIOLETS, ROSES

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Phila. Cut Flower Co., 1516-1518
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GROWERS' NOTICE

We are Open to Handle Anything
Good. We make weekly returns.

Flower Market Reports.

BOSTON

The market begins to feel the onward impulse of the season and values are slowly but surely advancing on all cut-flower staples. Asters are very near their finish, quality inferior, and carnations improve in grade every day. The rapid increase in the cut of carnations, however, offsets any tendency to better prices at present. In roses a pleasing activity is manifest. Beauty is selling well, particularly in the better classes. Queen of Edgely is bringing the same prices, but the supply is not extensive. Violets are not in evidence in this market, only an occasional bunch, inferior in quality, being seen. Lily of the valley is doing nicely, thank you.

Trade for the past few **BUFFALO.** weeks has been very satisfactory. Select asters are hard to get; the short white are a good help on floral work. Gladioli of fine quality are still obtainable and are bought up quickly. A good demand for roses has increased the price and fancy stock is hard to obtain, while Beauties have an extra large demand. The quality is the best that has been seen for some time and prices hold firm. Liberties and carnations are about the scarcest articles in the market. Lily of the valley sells rapidly; green goods are still plentiful.

The scarcity of good **CHICAGO** stock has made business appear on the right, where in reality conditions are not up to last year's standard. Good indoor carnations, a ready seller and improving almost daily; American Beauties still in short supply, clean before being handled; Kaiserin in fine condition and hold their own; Brides and Bridesmaids are showing vast improvement, and from now on we may expect good stock. Mme. Chateaux are not very large, but seem to be preferred to Bridesmaids by a great many buyers. Good Liberty still scarce; Golden Gate not much at present; Killarney still short stemmed; good asters have disappeared, and those that are now at our disposal sell readily; choice orchids have made their appearance and move nicely; eastern violets are appearing in good numbers and seem to be very fair, although suffering from too much heat on their long journey.

NEWPORT

Although there is no disguising the fact that the Newport season is decidedly on the wane, business for the past week has been fairly good in volume and profitable in character.

More choice stock is coming in. Dahlias, especially some of the finer varieties of the cactus type, have been particularly good. Roses are improving in quality and advancing in price; the same may be said of carnations, although there is much less demand so far for carnations.

Now that there is promise of a spell of good clear weather, hopes are held out that the good remnant of society still here may remain quite late.

PHILADELPHIA

The tone of the market here continues satisfactory. General stocks are moving in steadily increasing quantity, and the improvement in quality of crops as the temperature lowers is stimulating the demand. Beauties are coming in in increasing quantity and continue fine as to bud, stem and foliage, while Liberty, Richmond and Killarney are all that can be expected for the season. Killarney especially shows improvement, as the buds have now more substance. Kaiserin is still the best white, but Bride is now crowding it closely, and Bridesmaid still is steadily getting in proper form. In carnations, Enchantress and Lawson have loomed up, but for white, Queen is still the best. Montmore is the principal early chrysanthemum at present, but we look for a number of newcomers in the next few days. Single violets are plentiful and sweet; doubles are expected very soon. Dahlias are still in their prime and good judges anticipate no severe frost until the end of October. Glory be! It will mean tens of thousands to the dahlia men if that prophecy proves true. The fields are magnificent now, and if Jack Frost will only delay, joy will be unconfined. And please, Mr. Printer, when I write "Clifford Beuton," don't spell it "Benton." There are such a lot of smart people in this town. It makes one go down the side streets. Gardenia crop is increasing and demand good.

SAN FRANCISCO

This September has again proved itself as an annual occasion when the cut flower trade takes an improved activity and the dealers have all experienced better business than has prevailed for months.

DETROIT

John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

**Artistic Designs
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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Florists' Supplies

We manufacture all our
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A Full Line of ALL CUT FLOWERS

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"Victory"

To be disseminated 1906. Also a complete
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Write for Current Prices

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sept. 23 1905	First Half of Week beginning Sept. 25 1905		Last Half of Week ending Sept. 23 1905	First Half of Week beginning Sept. 25 1905
Roses			Carnations		
Am. Beauty, fan and sp.....	2.00	to 2.50 29.50 to 25.00	Fancy Class.....	1.50 to 2.00	1.75 to 3.00
" extra.....	19.50	to 19.00 16.50 to 1.00	General Class and Lower grades...	.50 to 1.00	.50 to 1.00
" No. 1.....	4.00	to 5.00 4.00 to 5.00	Cattleyas	75.00 to 100.00	75.00 to 100.00
" Lower grades.....	1.00	to 2.00 1.00 to 2.00	Lily of the Valley	2.00 to 3.00	2.00 to 3.00
Bride & Maid, fan and sp.....	5.00	to 6.00 5.00 to 1.00	Asters.....	.50 to 2.00	.50 to 2.00
" extra.....	5.00	to 6.00 5.00 to 1.00	Gladiol	1.00 to 2.00	1.00 to 2.00
" No. 1 and lower grades.....	1.50	to 2.00 1.50 to 2.00	Lilies	10.00 to 15.00	1.00 to 10.00
Liberty, fan, and sp.....	5.00	to 10.00 5.00 to 1.00	Violets.....	.25 to .50	.25 to .50
" extra.....	5.00	to 10.00 5.00 to 1.00	Dahlias.....	.50 to 1.00	.50 to 1.00
Carnot and Kaiserin, fancy.....	4.00	to 5.00 4.00 to 5.00	Adiantum Cuneatum.....	.50 to .75	.50 to .75
" Ordinary.....	1.00	to 1.50 1.00 to 1.00	Crocus	1.00 to 1.50	1.00 to 1.50
Golden Gate, Chateau, fancy.....	4.00	to 5.00 4.00 to 5.00	Smilax	8.00 to 10.00	8.00 to 10.00
" Ordinary.....	1.50	to 2.00 1.50 to 2.00	Asparagus Pinosus , string.....	1.00 to 2.00	1.00 to 2.00
			Greenery, bunches.....	1.00 to 1.50	1.00 to 1.50

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Taking orders for delivery in
New York City or Vicinity can
have them filled in best manner
and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

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Telegraphic orders forwarded to any
part of the United States, Canada, and
all principal cities of Europe. Orders
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ships or elsewhere receive special
attention.

Telephone Calls, 340 and 341 38th St.

Cable Address, ALEXCONNELL

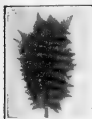
Florists Out of Town

Taking Orders for Flowers to
be Delivered to Steamers or
Elsewhere in New York can
have them delivered in
PLAIN BOXES, WITH OWN
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Charles Millang

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Wholesale Florists

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Cut Flower Exchange Tel. 830 Madison Square.

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Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

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Garden Carnations.

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Consignments received, sold well

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The finest stock in the market always on hand

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Wild Smilax, Palmetto and Cycas

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Everything in Season.

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ALL VARIETIES

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Headquarters in Western New York for

Roses

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And all kinds of Seasonable Flowers

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Give us a Trial

We can please you

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Furnish best stock at fair prices all the year round. Send for quotations on fall orders.

Tel. 798.799 Madison Sq.

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WHOLESALE FLOWER MARKETS.

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	CINCINNATI Sept. 26	BALTIMORE Sept. 26	BUFFALO Sept. 26	PITTSBURG Sept. 26
ROSES				
Am. Beauty, fan. and sp.	to 24.00	to 20.00	to 20.00	to 25.00
" extra.....	18.00	to 20.00	to 12.50	to 20.00
" No. 1.....	10.00	to 12.00	to 8.00	to 12.50
" Lower grades.....	4.00	to 6.00	to 5.00	to 6.00
Bride and Maid, fan. and sp.	to 4.00	to 10.00	to 0.00	to 7.00
" extra.....	to 3.00	to 4.00	to 5.00	to 1.00
" No. 1 and Lower	1.50	to 2.00	to 3.00	to 4.00
Liberty, fan. and sp.	to 10.00	to 10.00	to 7.00	to 7.00
" Ordinary.....	to 10.00	to 10.00	to 4.00	to 5.00
Carnot and Kaiser, Fancy.....	to 5.00	to 4.00	to 1.00	to 3.00
" Ordinary.....	to 4.00	to 3.00	to 1.00	to 2.00
Golden Gate, Chateaufort, Fancy.....	to 4.00	to 3.00	to 1.00	to 2.00
" Ordinary.....	to 2.00	to 3.00	to 1.00	to 2.00
CARNATIONS				
Fancy Class.....	to 2.00	to 1.00	to 2.00	to 2.00
General Class.....	to 1.00	to 1.00	to 1.00	to 1.00
MISCELLANEOUS				
Lily of the Valley.....	to 4.00	to 4.00	to 4.00	to 4.00
Asters.....	to 1.00	to 1.00	to 1.00	to 1.00
Gladst.....	to 2.00	to 2.00	to 2.00	to 2.00
Dahlias.....	to 1.00	to 1.00	to 1.00	to 1.00
Fuchs.....	to 1.00	to 1.00	to 1.00	to 1.00
Chrys. umbellatus.....	to 1.00	to 1.00	to 1.00	to 1.00
Adiantum Umbellat.....	to 1.00	to 1.00	to 1.00	to 1.00
Smilax.....	to 1.00	to 1.00	to 1.00	to 1.00
Asparagus Phoeniceus, string.....	to 1.00	to 1.00	to 1.00	to 1.00
" string.....	to 1.00	to 1.00	to 1.00	to 1.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

List of Advertisers

Page	Page
Anderson & Williams.....349	McConnell Alex.....354
Ashmann Godfrey.....347	McKellar Charles W.....354
Baker Wm. J.....352	McKissick W. E.....352
Barrows H. H. & Son.....351	McManus Jas.....354
Bayersdorfer H. & Co.....353	C.....360
Black, Chas.....350	Michell H. F.....342
Boas W. J. & Co.....353	Michigan Cut Flower.....350
Boddington A. T.....340	Exchange.....355
Bonora Chemical Co.....349	Millang Charles.....355
Bryant R. J.....359	Millang Frank.....354
Boston Florist Letter.....349	Moninger J. C.....359
Breck Joseph & Sons.....343	Mt. Hissarick Nurser.....350
Breitmeier's J. Sons.....353	Murdoch J. B.....353
Budwig J. A.....352	Nielsen Leo. Co.....340-342
Burnham Hutchings.....350	Peacock L. K.....340
Pierston Co.....350	Pennock Samuel S.....339
Burpee W. A. & Co.....342	Perkins John J.....355
Chicago House Wrecking Co.....300	Phila. Cut Flower Co.....353
Chicago Carnation.....340	Pierston F. B. Cut Flower.....340
Cooke G. H.....353	Pye R. Co.....340
Cordon J.....350	Rawson W. W. & Co.....342
Cottage Gardens.....350	Reynolds.....354
DeNijs Bros.....350	Reed & Keller.....353
DeNijs Bros.....350	Reinberg Peter.....352
Dombrow W. H.....353	Robinson H. M. & Co.....355
Dreer H. A.....351-359	Rochrs Julius.....354
Dumont & Co.....353	Rolker August & Son.....350
Dysart R. J.....359	Sander & Son.....351
Elliott Wm. & Son.....342-350	Schillo Lumber Co.....350
Ester J. C.....360	Scollay John A.....360
Ernest W. H.....359	Scott John.....351
Farguhar R. & J. Co.....342	Sharp Partridge & Co.....359
Fletcher F. W.....340	Sheridan W. F.....354
Ford Bros.....354	Siggers E. G.....359
Forest Nursery & Seed Co.....350	Situations & Wants.....358
Franklin Davis Nurseries.....350	Stevens J. H. & Co.....340
Fromow W. & Sons.....350	Stearns A. T. Lumber Co.....360
Gormley W.....354	Sutherland Gen. A.....340
Grey T. J. & Co.....342	Suzuki & Iida.....349
Gude A. & Hm.....353	Suzuki H. H.....359
Gurney Heater Mfg. Co.....359	Thomas W. H.....349
Guttman Alex.....354	Thompson J. D. Co.....340
Hail Alex.....350	Thorburn J. M. & Co.....342
Hammond J. A.....355	Treadwell & Schenck.....353
Heller A. C.....352	Troy J. H.....359
Hewes A. H. & Co.....348	Vaughan and Sperry.....352
Holls Gen.....350	Walsh M. H.....350
Holly Castle Co.....350	Warburton C.....340
Horan E. C.....355	Ward Ralph M. Co.....342
Hotchkin E. F.....351	Watson G. C.....350-353
Hubb Eng. Co.....359	Waugh.....350
Hunt E. H.....352	Weber F. C.....353
Kasling W. F.....355	Weber H. & Sons.....340
Kervan Co., The.....355	Welch Bros.....352
King Cons. Co.....360	Weiland & Risch.....352
Kloker A.....350	Winterich Bros.....359
Koral Mfg Co.....352	Winteron E. F.....352
Lager & Hurrell.....351	Young John.....357
Lane Julius.....351	Young & Nugent.....354
Leuthy A. & Co.....351	Young Thos. Jr.....354
McCarthy N. F. & Co.....355	

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THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country.

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Advertisements under this head, 10 cents a line.
Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Philadelphia, Pa.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARACARIAS.

H. A. Dreer, 714 Chestnut St., Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

H. A. Dreer, 714 Chestnut St., Philadelphia.
Sprengr and Plunusous Haus.
For page see List of Advertisers.

Yalaha Conservatories, Yalaha, Fla.

R. Kilbourn, Clinton, N. Y.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Bermuda Grown Harrisii and Freesia.
For page see List of Advertisers.

De Nijs Bros., Hillegom-Holland.
For page see List of Advertisers.

R. & J. Farguhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

Leo Nielsen, 1217 Arb. St., Philadelphia, Pa.
Carnation Plants.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

The E. G. Hill Co., Richmond, Ind.
My Maryland, Jessica.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

S. S. Pennock, Philadelphia
Carnation Plants.

COLD STORAGE VALLEY PIPS.
J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.
C. Winterich, Dedand, O.
For page see List of Advertisers.

DAHLIAS.
L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.
Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.
The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

DRACAENAS.
H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

FERNS.
A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

G. C. Watson, Philadelphia.
For page see List of Advertisers.
S. S. Skidolsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4325-25 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

FLOWER POTTS.

W. H. Ernest, 28th & M Sts., Washington, D. C.
For page see List of Advertisers.

A. H. Hewes & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Piersen Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk
St., Chicago, Ill.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kyrnan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., and Filbert, Md.
For page see List of Advertisers.

Fancy Ferns
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Piersen Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LADY CAMPBELL VIOLETS.

Strong, healthy field-grown plants, free
from disease, packed to carry safely, free
of charge. No. 1, \$2.50 per 100, \$20 per
1000; No. 2, nice plants, \$1.50 per 100,
\$10 per 1000, good and very cheap. Ad-
dress Charles Black, Hightstown, N. J.

W. H. Taubman, Covent St., Morris
Co., N. J.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia.
For page see List of Advertisers.

LILY BULBS.

Ralph M. Ward & Co., 12 W. Broadway,
New York.
Bermuda Harrill Bulbs.
For page see List of Advertisers.

W. F. Kasting, Buffalo, N. Y.
Lilium Hartwegii.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

A. T. Boddington, 342 W. 11th St.,
New York.
For page see List of Advertisers.

MYRTLE.

S. J. Galloway, Eaton, Ohio.
NICOTIANA SANDERAE.
H. A. Dreer, Philadelphia, Pa.
J. M. Thorburn & Co., New York.
Vaughan's Seed Store, Chicago and
New York.

NURSERY STOCK.

Mt. Hermon Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cattleya Schroederiae.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

E. F. Hotchkiss, 48 Watson Ave.,
Orange, N. J.
For page see List of Advertisers.

PALONIES.

George Holpis, S. Weymouth, Mass.
For page see List of Advertisers.

Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.
Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PANSY SEEDLINGS.

J. Gordon, 704 Fifth Ave., Brooklyn, N. Y.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
Pansy Plants
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEACH PITTS.

Franklin Davis Nursery Co.,
Baltimore, Md.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leathery & Co., Roseland, Mass.
For page see List of Advertisers.

Julius Roberts, Rutherford, N. J.
For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

POINSETTIAS.

G. C. Watson, Philadelphia.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4235 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Rose, H. T. Kosses and Rambles.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.
For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Kemp St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

SEEDS.—Continued.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McLeanville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Henry F. Michel, 1018 Market St.,
Philadelphia, Pa.
New crop of Cyclamen Seed.
Michell's Grand Strain.

Conrad Appel, Darmstadt, Germany, Es-
t. 1879. High Grade Corn, Clover, and Tree Seeds.

STEAM TRAP.

E. Hppard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitchings Piersen Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger, Col. 42
Hawthorne Ave.,
Chicago.

VIOLET PLANTS.

Mrs. Leslie H. Fellows, Hyde Park, Mass.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.
Buffalo.
For page see List of Advertisers.

Wm. F. Kasting, 358-87 Elliott St., Buf-
falo, N. Y.
Chicago.
For page see List of Advertisers.

J. A. Budington, 31 Randolph St., Chicago.
E. H. Hunt, 678 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Heinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Kisch, 51 Wabash Ave., Chicago.
Victor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Waterson Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 129 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Ave.

New York.

For page see List of Advertisers.
Bonnet Bros., 55-57 West 26th St., New
York.

For Bros., 48 West 28th St., New York.
Wm. Ghorneley, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
Jay A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Milling, 50 West 29th St., New York.
Frank Milling, 55-57 W. 26th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 49 W. 28th St., New York.
Travely & Schenck, 44 W. 28th St., New
York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

W. C. Mackessick, 1614 Filbert St., Phila-
delphia, Pa.

Leo Nielsen Co., 1217 Arch St., Phila-
delphia, Pa.

S. B. Gamm, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

BONORA.

Bonora Chemical Co., 584-86 Broadway,
New York.

For page see List of Advertisers.

CALLA BULBS.

Henry F. Michell, Importer and Grower,
1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.

FIELD GROWN CARNATIONS.

C. Warburton, Fall River, Mass.
For page see List of Advertisers.

FLORISTS' LETTERS.

Koral Flor. Co., 20 Hawley St., Boston.
For page see List of Advertisers.

HOLLY FERNS, PTERIS AND ASPARAGUS.

Anderson & Williams, Waltham, Mass.
For page see List of Advertisers.

IMPATIENS HOLSTII.

W. W. Rawson & Co., Boston.
For page see List of Advertisers.

NATIVE ASTERS.

Wangh, Amherst, Mass.
For page see List of Advertisers.

STEAMER ORDERS FILLED.

W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.

WHOLESALE FLORIST.

Dumout & Co., Philadelphia.
For page see List of Advertisers.

GREENHOUSES BUILDING OR PROJECTED.

Pittsburg, Pa.—J. Fuchs, palm house,
20x30.

Cohoes, N. Y.—A. D. Carpenter, one
house.

Roxborough, Pa. E. Barrett, house
15x100 feet.

Athens, O.—Simon Brouwer, one
house, 15x80.

Williamstown, Mass.—George Walk-
er, one house.

Milwaukee, Wis.—Benjamin Greg-
ory, two houses.

North Beverly, Mass.—C. E. Stream-
berg, violet house.

Provo City, Utah.—Jensen & Huish,
one house, 18x100.

Woodmere, Mich.—A. W. Steincke &
Son, two houses, 26x80.

Webster Grove, Mo.—Connon Floral
Co., two houses, 18x125.

LIST OF PATENTS.

Issued September 12, 1905.

799,641. Lawn Mower. George W.
Gage, Kenilworth and Al-
bert H. Kaehler, Chicago,
Illinois.

799,104. Flower Stand. Thomas S.
Sprague, Alma, Mich.

799,359. Tool for Exterminating
Weeds. John W. Shaffer,
Charleston, Ill.

799,466. Tree Protector. Charles A.
Holt, Melford, and Charles
F. Peacock, Everett, Mass.

799,617. Fruit Clipper. Emil P. Steffa,
Pomona, Cal.

Bastian & Elberfeld is the name
of a new firm located at 1125 Main
street, Kansas City, Mo.

Owen P. McDonald, 611 Madison ave-
nue, New York, has filed a petition in
bankruptcy. Liabilities, \$6,286; assets,
\$426. Schloss Bros. are given as
creditors to the amount of \$682.

SEED TRADE.

A large crop of sweet corn is now
assured, unless a considerable per-
centage spoils in progress of curing.

This is the season for bulbs with
most of the Seed Trade, and seeds for
the most part are receiving but inci-
dental attention.

It is currently reported that the af-
fairs of the Clucas & Boddington Co.
will be wound up, and the concern
will cease to exist. The liabilities are
so heavy, compared with the available
assets, that there is no chance for a
compromise.

It begins to look as if seed potatoes
would have some value next spring.
From all parts of New York State
come reports of the tubers rotting bad-
ly, and it is said this condition pre-
vails to a more or less extent in Maine
and Michigan. Should this latter
statement prove true, it will mean a
sharp advance in prices, and before
next spring.

It is reported that one of the lead-
ing seed growers of the Pacific Coast
placed a large lot of onion seed for
sale with a Chicago broker last spring.
As far as can be learned this seed was
not offered to the trade, but was ped-
dled around the country to onion seed
growers at absurdly low prices. The
party to whom this seed belonged no
doubt wishes he had it today, and
probably realizes that he made a
colossal blunder in the method he
adopted to dispose of it. That he did
his many customers a grave injustice
goes without saying, and that he
"cheaped" the seed business when
he cheapened the price of the seed is
also beyond question.

CATALOGUES RECEIVED.

Henry A. Stevens Co., Dedham,
Mass. List of herbaceous perennials
and phloxes.

W. E. Marshall, 146 West 23d street,
New York. List of bulbs, plants,
trees and shrubs.

Good & Reese Co., Springfield, Ohio.
Fall wholesale trade catalogue of roses
and hardy plants.

Conard & Jones Co., West Grove,
Pa. Floral Guide for autumn 1905.
Colored covers "Baby Rambler Rose"
and spring flowering bulbs.

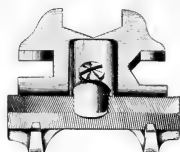
Hammond's Paint Works, Fishkill-
on-Hudson, N. Y. Established for
thirty years, this house and its manu-
factures have stood the test of time.
Don't buy paint or putty until after
you have read this catalogue.

BUSINESS CHANGES.

A new flower store has opened at
248 Sutter street, San Francisco. The
experienced men at its head are Charlie
Cohen and A. Figne. They have a
nursery at Baker and Union streets.

Jacques, New York; florists; capital,
\$10,000. Incorporators: Frederick B.
McNish, Arthur O. Ernst, Sydney
Berrheim, Margaret Pfeiffer and Marie
Geisman, all of No. 128 Broadway,
New York.

Upon the application of Henry W.
Vose, one of the members of the firm
of Vose & Fellows, florists, of Brush
Hill road, Milton, the superior court
for the county of Norfolk has ap-
pointed Robert Homans of Boston re-
ceiver to take charge of the business.
In accordance with the order of the
court Mr. Homans is now carrying on
the business.



SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS

This is to certify that

GEORGE C. WATSON

is

HIGHLY COMMENDED

for

LAWN MOWER SHARPENERS

exhibited at

WASHINGTON, D. C., AUG. 15-18, 1905.

(Signed)

J. C. Vaughan President.

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HORTICULTURE

Vol. II.

OCTOBER 7, 1905

No. 15



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HORTICULTURE

VOL II

OCTOBER 7, 1905

NO. 15

PUBLISHED WEEKLY BY

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11 Hamilton Place, Boston, Mass.

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Victoria Trickeri.		MISCELLANEOUS	
HARDY OPUNTIAS—Illustrated—Amedee Hans....	367	After Adjournment	371
FLORIDA IN SEPTEMBER—E. N. Reasoner.....	368	Newport Personals	371
ROSE HOUSE WISDOM—R. T. McGorum.....	368	Personal	371
NEPHROLEPIS BARROWSI AND OTHERS—David McIntosh	369	Philadelphia Facts and Fancies.....	371
CULTURE OF THE CYCLAMEN—James Stuart....	369	Don't	371
EDITORIAL	370	The St. Louis Exhibition—C. W. Wors.....	371
CUT FLOWER MARKET REPORTS		A Misrepresentation	371
Boston, Buffalo, Chicago, Cincinnati, Indianapolis, Louisville, New York, Philadelphia.....	372	Obituary	371
NEWS OF THE CLUBS AND SOCIETIES		Montreal News	372
Tarrytown Horticultural Society.....	378	Corrected Chrysanthemum Scale.....	372
Hartford Florists' Club.....	378	San Francisco Notes	372
Florists' Club of Philadelphia.....	378	Public Documents Received	372
Boston Mycological Society.....	378	In Vacation Time -Illustrated.....	375
SEED TRADE	382	News Notes	375
		What They Say of Us.....	379
		Greenhouses Building or Projected.....	382
		Catalogues Received	382
		Business Changes	382
		List of Patents	382

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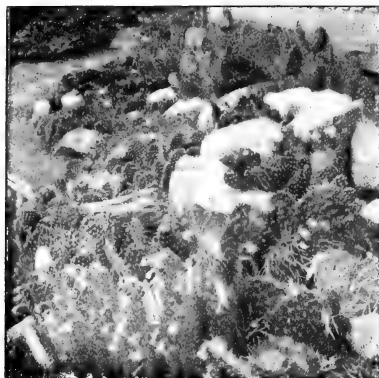
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MICE
PROOF
SEED
CASES.**

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MONTCLAIR, N. J.

Hardy Opuntias



Cactuses are, among plants, a genera that many years ago were held in great esteem but are much neglected nowadays: they only can be found in botanical gardens, occasionally in private estates. A few rich-flowering species like *epiphyllum* and *phyllocactus* have been cross-fertilized and really nice and useful hybrids have been raised.

The hardy opuntias, which are not yet but soon will be much used in landscape gardening, are certainly of great value for decoration when used in the right situation—planted between rocks on a sandy, dry, hot sunny bank where nothing much will grow; there they will in a short time delight the eye by their vigorous, trailing growth, the diversity of the forms of their joints, the various colors and length of their spines, and in June and July the abundance of their difference shades of yellow, rose and red flowers; later some of the fruits turn red.

Some are of erect habit and grow quite tall. They will grow in any sunny place and in any soil where the moisture does not stand on the roots. If planted in low ground the place must be well-drained, but a dry slope is where they grow best. In planting they need space for they soon grow to large-sized plants, and once established are not easy to transplant.

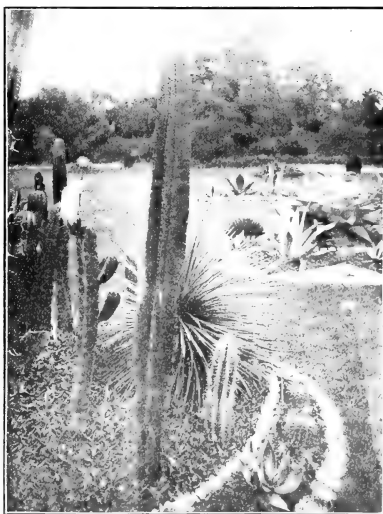
Hardy opuntias need no protection against frost. The sun with alternate thawing and freezing may burn them, and a big layer of wet snow will sometimes break them, therefore a little roof built over in winter with boards, hemlock or spruce branches is a good protection.

There are about forty species and varieties known as hardy which will stand our New England climate, but there are certainly more that have not been tried or have not been introduced from Colorado where nearly all the hardy ones are from.

These are a few that are in a Western *Opuntia*



arenaria, dwarf, joint cylindrical, short, tuberculate, with long dark spines and yellow flower. *O. Camachica* and varieties are big growing, some of erect habit, the joints flat, oval, egg-shaped or round and generally very large with long white spines. *Albispina*, *longispina*, major, minor, *orbicularis* and *pallida* have the flowers of different shades of yellow; *rubra* and *Salmonica* have red flowers.



CACTUS IN FAIRMOUNT PARK, PHILADELPHIA

O. fragilis is a dwarf growing species; the joints are cylindrical and short; flowers yellow. *Cæspitosa* and *tuberiformis* are some of the varieties. *O. Missouriensis* or *polyacantha* has long, flat joints covered with dark spines, flower yellow. *Erythrostema*, *Salmiana* and *Watsonii* have the flowers orange-yellow.

O. brachyarthra flava has the joints small and thick, creeping along the ground, much resembling *O. fragilis*.

O. pachyclava, *rosea* and *Spæthiana* have the joints cylindrical, of a dark green color, and red spines; the flowers are light red.

O. Rafinesquii grows wild in New England. The variety *Arkansana* has a yellow flower, brown in the center; the joints are smaller and more covered with spines; *Cymachilla* and *Greenii* are other varieties.

O. Whadantha has the joints thick and long, of dark green color with red spines; the varieties all have pink or rose flowers. The best varieties are *brevispina*, *flavispina*, *pisciformis*, and *Schumanniana*. *O. vulgaris*, the only *opuntia* growing wild in Europe and found in New England, has joints nearly round, flat and without long spines; flower yellow.

O. Xanthostema has joints egg-shaped, flat and creeping along the ground; *elegans*, *fulgens*, *gracilis*, *orbicularis* and *rosea* are some of the varieties; flowers pink and rose.

Am. Id. Ham.

Florida in September

Some of the gorgeous tropical plants that may be seen now at their best in Florida are the dwarf poincianas (*Cæsalpinia pulcherrima* and *C. pulcherrima flava*), *acalyphas*, *Gloriosa superba*, and *hibiscus*. The flaming red of the *Cæsalpinia pulcherrima* is very attractive and one wonders why it is not grown as a bedding plant through the North; strong plants which are cheap, may be planted out in late Spring and be in flower in August until frost; the foliage is very attractive and tropical appearing also.

Acalyphas in variety, especially *marginata* and *mosaica*, are commonly four to six feet high, a perfect bank of color!

Gloriosa superba is a lovely climbing lily, perhaps not adapted to the North, but may be planted throughout the Gulf States; the flowers are of a bright orange crimson, and a deep yellow, and keep coming for many weeks. It is fine for a screen.

Hibiscus may be seen everywhere in many colors; the Chinese type is a splendid subject for open air planting in Florida and the warmer parts of the South as it is of easy growth and continually in flower.

The plentiful rains of the past summer have caused a very luxuriant growth to all crops and ornamental plants through the South this season.

E. N. REASONER.

Rose House Wisdom

How to curtail the production of short roses in the fall. The question was asked by a party well up in horticultural matters. This is a hard nut to crack and the kernel will be perhaps as tough as the shell is hard.

The average rose grower doesn't care to say he is cutting only short stuff and if he should have some, very often he will say, "You should have seen the extras I had last week." Human nature is always prevalent and the rose grower is no exception to the rule. But if the ice chests of the wholesaler are inspected one will generally find all the short roses that can be used.

A certain amount of this class of goods can be used to advantage; the rest go to the fakir at a price which often suggests that it would be better to throw them on the dump than pay express charges. The wholesaler can't help it, as some of the stuff sent is in such an unsalable condition that it is a wonder that anything whatever is realized on it. If the grower would go into the wholesale house once in a while and see how his roses arrive there would be better packing and better roses sent in, which would result in better prices on the tag at the end of each week. The wholesaler gets more kicks than love taps and it is generally from the man with the poor grade of stock that the hardest kick comes.

Of course we can't have all extras and firsts, except from the first crop from the old plants a better percentage of good stems can be had if a little thought and care are taken earlier in the season. In my notes of August 19th I showed a plan which eliminates to a great extent the short-rose question. We can cut stems over two feet long from young plants put in the bed from 3 1-2 inch pots in June. Young plants are never mulched here. We always put in enough manure to keep them going till we begin feeding with liquid. Old plants are mulched with manure and soil mixed, with a little lime through it. We always aim to keep the plants as hard as possible, especially in the fall, to get good breaks, air is kept on all the time. Keep the beds a little on the dry side when the crop is going off, which tends to ripen the wood so as to get good red shoots.

A good many years ago mulching young plants was usually done in August, the stronger and fresher the manure and the stronger the smell, it was considered just the thing. Getting fresh cow manure on one's hands in August with the flies buzzing round your head, trying to ward them off and get the manure where it should go was quite a job in itself, and there was a certain art of getting the odor away from one in perhaps less than a week. The plants then got too much feed at once and one could notice after the first watering the leaves were paler and weaker looking and in the hot sun they sometimes wilted badly. The manure tank with pump is the cleanest and also the safest, as it can be given in any strength required.

Robt. W. S. or in

Nephrolepis Barrowsi and Others

Nephrolepis Barrowsi is not as distinct a departure in form from *N. Bostoniensis* as either *N. Piersoni* or *elegantissima*, yet it may for that same reason be considered fully as valuable commercially as the other two varieties. The fronds of *N. Barrowsi* are long and graceful, showing a clean space bordering each side of the mid rib emphasizing the delicate decorative appearance of the outer edges of the frond. This feature, exclusively its own, together with a capacity to take the place of *N. Bostoniensis* in large specimens makes it welcome to many who still retain a lingering regard for the old Boston fern. The variety in question by no means detracts from any of the others of recent introduction; it just came to take the place open for it, the same as the others did. There is room for all and for more like them, and it seems remarkable that each variety should have valuable characteristics distinct from the others from a utilitarian point of view. When *Nephrolepis Piersoni* came, it was thought that perfection had been attained in this class of ferns for decorative work, but when a little later *N. elegantissima* (or *compacta* as it was then called) made its appearance gardeners perceived an ideal fern for growing as specimen plants because of the marvelous nature of the fronds.

Nephrolepis Scotti, although in individual frond not so distinct a variety as the two others, is so compact and sturdy that it took hold immediately. For a plant in a medium-sized pot or pan *N. Scotti* cannot be equalled. I would say it was the old Boston cut down to fit the millions, and it will be wanted everywhere. Despite the undoubted merit of all the other new varieties and the unmistakable signs of returning interest in the old Boston itself, *Nephrolepis Barrowsi* is a welcome introduction and it is safe to predict that it will be grown in large numbers in the near future.

Culture of the Cyclamen

October and November are, as a rule, the months for sowing cyclamen seeds, although progressive florists who make a specialty of them for the Christmas plant trade are now sowing as early as the beginning of August. However, if seeds are sown between now and Thanksgiving and kept growing steadily on, plants for either exhibition or trade purposes ought to be procured, providing they never suffer from a check of any kind.

After years of experience we find that a good English strain is the best seed that can be purchased here, and is certainly worth the rather high price seedsmen charge.

Our method of sowing the seeds is about the same as is generally recommended, except that we use boxes instead of pans. Wooden receptacles, we find, retain the moisture more evenly than earthenware, a fact never to be overlooked in growing cyclamens. Sow in a mixture of leaf mould, sand, fine charcoal and turfy loam, thoroughly sterilized and, after a good watering, set in a shady position where the temperature does not fall below 56 degrees at night.

As soon as the young seedlings appear above the soil the boxes should be raised up to within six inches of the glass, to prevent the first leaf from becoming drawn. Our seeds are sown thinly, and we are never in a hurry to prick off the seedlings. Cyclamens, unlike most other seedlings, have their rootstocks, which they depend on more for strength than on their roots, and our experience has been that the longer the rootstocks are left undisturbed at this period the sooner they will gather strength.

When the second leaf is well up we transplant into other boxes, three inches apart, because, here again, we are in no hurry to pot off. The mixture should be about the same as before, except a little less leaf mould and sand, with some well decayed manure added; manure that is at least three years old, still keeping the boxes up to the glass on a back bench and gradually dispensing with shading as winter approaches.

David McIntosh.

James Stuart

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and Ready to Pick**

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GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAM LTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

A new contributor

The notes on cyclamen culture, by the grower whose wonderful productions shown at the spring exhibitions of the Massachusetts Horticultural Society for the past few years have astonished all who have seen them, will repay a perusal. We shall have other valuable articles from Mr. Stuart's pen from time to time.

Nicotiana Sanderae

Looking from our window across a stretch of lawn to where *Nicotiana Sanderae* sparkles in the irregular herbaceous border and rockery we arrive at the conclusion that never before has that bit of garden been so beautiful. Pencilled in carmine against a dark foliage background its color intensified by an occasional contrasting galaxy of satiny white boltonias and softened with clouds of gypsophila the effect is simply charming and we are duly grateful to the man who added *Nicotiana Sanderae* to our list of garden gems.

Berkshire fern picking

The State law enacted to put a stop to uncontrolled and wanton raids on the ferns in the Berkshire hills of Massachusetts, at first regarded with apprehension by the dealers, now proves to have been to the advantage of these people and beneficial to the fern industry as well as the farmers and others on whose territory the ferns abound. The picking season is now on and picking is largely done by the local country people instead of the hordes of Greeks and Italians from New York and elsewhere whose devastation of the woodlands was the primary cause of the demand for the restrictive law.

The menace of the gas main

Instances of injury to and destruction of trees by gas from defective mains are much too frequent. One of the most deplorable is the loss of the wayside trees—elms and lindens said to be seventy-five or eighty years old—on one of the most historic highways in an old New England village, presumably from leaking gas. The worst feature of such a case is that it is impossible to restore or adequately pay for the

damage done. The mere replacing of the old by young trees, even if it is shown that the latter will not die from the same cause, is not compensation enough. If it can be proven that the cause of the death of the trees is as charged the penalty should be severe enough to ensure greater vigilance on the part of the gas companies in the future.

The rise of the dahlia

Notices of dahlia shows from many places come to us and give emphasis to the many proofs of growing popularity for this gorgeous garden flower. Perhaps the dahlia shows may not excite the widespread fascination that the chrysanthemum shows did, through lack of the sensational character the latter enjoyed as an effect of the wave of oriental sentiment on which they were borne, but the dahlia may, nevertheless, put the chrysanthemum into the background as a people's favorite, affording, as it does, a much more brilliant and wider range of color and its cultural requirements being so simple that all who so desire may compete for exhibition prizes. There will be plenty of room for the expert grower as well. Pot-grown dahlias well-trained and full of bloom are a possibility of future exhibitions and should furnish plenty of scope for cultural ability as well as material for unique decorative effect.

A new forest policy

Recent legislation by Congress has placed the power in the hands of Secretary Wilson to adopt and put in operation a comprehensive, intelligent, forest policy based upon the methods in force in European countries where many years' expert investigation and control have developed a thorough knowledge of woodland preservation. Not only will the forests be protected against spoliation and water storage preserved, but, in the development of the timber of the vast government reservations, it will be possible to make the work self-supporting by the marketing of surplus lumber. The awakening of national, state and local authorities to the grievous menace of forest devastation has been a slow process and much yet remains to be done before the mania for "clearing the land" and the dense stupidity of a large proportion of the people as to this subject have been removed.

Experience versus imitation

The fact that many carnation growers, after a trial of the much-lauded system of summer cultivation under glass, have gone back to the old method of field culture is interesting as showing how far we are (and are likely to continue) from any exact system in such matters that will be of equal value to all, regardless of environment or local circumstance. The return of certain observant rose growers to the bench method after a trial of so-called solid beds gives rise to a similar train of thought. It does not follow that because one grower gets best results from following a certain course another grower will have the same experience. The intelligent cultivator will, in time, ascertain the methods which yield most satisfactorily in his own case. Cultural instructions have a value up to a certain point but there comes a time when every grower must think for himself and on his intelligence and good judgment will depend his ultimate success.

AFTER ADJOURNMENT.

We presume we owe an apology to our readers in overlooking, in recent news notes, mention of several worthy gentlemen who had new lights of glass put in, painted the front of their counters, got their hair trimmed, welcomed ten-pound bouncers to their happy homes, bought a new harness, or did one or more other extraordinary feats worthy of widespread publicity. We humbly acknowledge our failings in this respect and hope to be forgiven.

Our whimsical friend "Job," who makes his living by "knocking," is disposed to jocularity over our solicitude regarding the spread of the gypsy and brown-tail moths. We would respectfully remind him that Massachusetts has recently appropriated \$300,000 towards chasing the moths out of the State, and the chances are that they may bring up in New York, in which case "Job" will have something to write about. Boston has the moth infliction and New York has "Job." We sympathize with New York.

While some of us are trembling at the prospect of approaching frost, others await its coming with eager impatience. The dahlia man doesn't want to see frost for a month to come, but the individual whose product is all under glass or whose business depends upon the market value of such product is all the other way and ready to welcome the destroyer in the sentiment of the old Irish toast:

Come in the evening, or come in the morning,
Come when you're looked for, or come without warning;
A thousand welcomes you'll find here before you,
And the oftener you come here the more I adore you!

NEWPORT PERSONALS.

John A. Thompson has resigned his position with the George A. Weaver Company.

Charles Cowles has been appointed gardener to Mr. E. C. Knight, Jr., Bellevue avenue.

Robert Patterson has entered upon his duties as head gardener to Mrs. Richard Gambrell.

F. L. Zeigler has for some time been making a window display of named dahlias. The scheme seems to work well.

Charles D. Stark, who for several years leased the fruit houses owned and conducted by William Findlay, has given up the business and secured an engagement with a California mining syndicate.

PERSONAL.

T. D. Hatfield of Wellesley, Mass., is on a visit to England.

Visiting New York, Jackson Dawson, of the Arnold Arboretum, Boston.

Frank J. Rosser of Detroit, Mich., has gone into the florists' business at 270 Maybury avenue.

Glad to tell you that I found a purchaser for the Rhode Island greenhouse through my small advertisement in *Horticulture*. A. MILLER.

PHILADELPHIA FACTS AND FANCIES.

The daily press is devoting considerable space to fall gardening. The articles are unusually well written and practical. Taken in conjunction with the recent development of school gardens here, the situation is distinctly encouraging.

It is reported that the gardening articles by Wilhelm Miller, editor of *The Garden Magazine* appearing in the Philadelphia Sunday Press have been syndicated and appear simultaneously in seventy of the great dailies of the country. These are a vast improvement over what we have usually been regaled with in such mediums, and reach an enormous number of people untouched by the more advanced amateur garden literature.

William Henry Maule and a party of friends met with an automobile accident at Hammonton, N. J., on Sept. 23. They were on their way from Philadelphia to New York. The accident was caused by a team hauling a load of telegraph poles shying at the touring car. The long poles swung in towards the auto, the ends striking the machine and smashing it to pieces. The most seriously injured was Charles P. Maule who was struck by one of the poles and knocked across the road twenty feet.

Samuel S. Pennock's has become recognized as the orchid headquarters in Philadelphia. The Grovedale Nurseries commenced last week to ship oncidiums, cattleyas and cypripediums. Pericat and others are also sending in some nice stock.

Christmas novelties and staples have commenced to arrive and many outside visitors are on a tour of inspection of the supply houses. Orders for lycopodium, holly and other festive stock are being placed, in addition to baskets, ribbons, vases and other dry items. Bayersdorfer seems to be the most overworked man in the business at present.

DON'T.

Don't neglect to disbud those carnations.

Don't put too much confidence in Jack Frost.

Don't delay any longer in finishing up those repairs on the roof.

Don't leave bulbs lying around for days or weeks before planting.

Don't forget to advise your friends to subscribe now for *Horticulture*.

Don't put off any longer the sowing of those sweet peas for winter flowers.

Don't spend your time worrying about what the other fellow is going to do.

Don't burn up the leaves intended by Nature for the protection of plants in winter.

Don't fail to give *Horticulture's* advertisers the preference when goods are needed.

"BUG RECIPROCITY."

Dr. Howard reports an international agreement between this country and England for the exchange of useful insect parasites.

This is a form of reciprocity that does not have to go through the senate. Yet we wonder if the beneficent bugs will pay duty as "unmanufactured articles," "live stock" or "wild animals."—New York Evening Post.

THE ST. LOUIS EXHIBITION.

Dear Sir:—Will you kindly allow me a space in your valuable columns in regard to the flower show and its success at St. Louis. It appears to me in order to make the show a success that the florists in general should work all together with those who are working day and night to make a show which will be a credit to the city. It should not be written of St. Louis that it is impossible to run a paying exhibition here. It is not enough, neither is it just, to put all the labor on the five gentlemen composing the executive board and its manager, Messrs. Weber, Miller, Guy, Meinhardt and Koenig work very hard and it seems to me if the show were more widely advertised it would help considerably. Let the prominent florists get up a fund of \$100 and offer three prizes—first for \$50.00; second, \$35.00; third, \$15.00, to the down town merchants for the best decorated floral window display during flower show week. If this should be approved, let it be well advertised in the daily papers. The firms competing for the prize would have to purchase their flowers from their florists and thus the fund subscribed would be trebly refunded.

I think also to show appreciation for the labors of the five gentlemen already mentioned they should have donated to them a certain number of tickets to distribute among their most influential customers. These persons will talk to others about the show and in that way will widely advertise it. Let these donated tickets, however, be used only on opening day. I would mention that the stores are decorating this week for the horse show—surely they will be induced to do so for the flower show. Respectfully,

C. W. WORS.

A MISREPRESENTATION.

A rumor having gained circulation to the effect that restrictions had been placed by the authorities upon the sale of nursery stock by the Cottage Gardens Company on account of the presence of San Jose scale, we are authorized to say on behalf of that company that their stock has been inspected by the State entomologist three times this Summer and the legal certificate of immunity has been received. The only scale found on the place was on some Marie Legraye lilacs being grown for forcing purposes and upon its discovery these lilacs were immediately burned, although they represented a considerable amount of money, and those not apparently infested were fumigated. So far as the entomologist can discover there is no scale whatever at Cottage Gardens.

OBITUARY.

J. F. Kinsch died on September 25 in Morton Grove, Ill., where he has lived for nearly fifty years. He was a native of Trier, Germany.

Thomas Butler, a salesman for a Philadelphia seedsmen, was struck by a train while crossing the tracks at Rosemont, Pa., and instantly killed September 29. Mr. Butler was well and favorably known to the trade in Philadelphia, having been at one time in the trucking and florist business on his own account at Wyndmoor, Pa.

Flower Market Reports.

BOSTON American Beauty still continues a good seller. The demand is excellent. Bride and Bridesmaid roses are very abundant, the higher grade selling freely, the lower grades slowly. Carnations are as yet limited in quantity. Violets are getting more plentiful and quality is fairly good. Small roses are the slowest stock on the market to move.

BUFFALO. A sudden rise in the temperature has brought on a good deal of stock, especially roses and carnations. Fancy carnations have brought good prices, while roses, being too plentiful, brought only fair. Beauties were gathered up quick. Asters are about done for, but occasionally are seen peeking out of a box and are snapped up quicker than any other white flowers. Gladioli are still being sold rapidly and good blooms are to be had, considering the time of year. Dahlias of fine quality are in good condition and move well. Violets are improving in size and color, but as yet no large demand, while lily of the valley has been a good seller.

CHICAGO Business has taken a decided turn for the better the last few days and we sincerely hope it may continue. Stock cleans up daily and no one seems to have an oversupply on hand. Beauties are not plentiful and are promptly taken wherever they make an appearance, at rather fancy prices. Dahlias, just at present, come in large quantities, with unusually fine blooms. Liberty very good now, also Kaiserin, some fine stock being seen in several commission houses. Carnations show good quality, especially Enchantress. Lawsons still short stemmed. Harrisii lilies still very scarce and prices at high-water mark. Eastern violets are coming in better shape and will reach standard as soon as weather remains cool. Fine yellow chrysanthemums have made their appearance, but do not move especially fast. Whites have not shown themselves in any quantity and are not equal to the demand. Cattleyas are good and sell readily.

CINCINNATI Roses are now arriving in large quantities and have, with a few exceptions been cleaned up daily, as any left over or short stemmed stock has been utilized in the fall openings which are now taking place. American Beauties are coming in in goodly numbers and find a ready sale. Carnations are a little scarce, as are asters and other out-door flowers.

INDIANAPOLIS Autumn season is on the increase. Prospects bright and everybody expects a busy season. A few chrysanthemums are coming in, quality only fair. Quality much improved in all lines. The call for Beauties is a little ahead of the supply. Out-door stock is getting scarce with the exception of dahlias which are to be had in abundance. Violets, lily of the valley and lilies are to be had in too small quantities.

LOUISVILLE Business is progressing favorably. Carnations, roses, dahlias, cosmos, etc., are all of good quality and in quantity sufficient for all demands. Sales generally satisfactory.

NEW YORK Dull trade generally is reported from the wholesale districts. The supply of small roses is very heavy and sales of these in boxes as they come in without rehandling are made at from \$3.00 to \$7.50 per thousand. The best seller continues to be the American Beauty. As the season advances carnations improve in quality and are received in increasing number. Violets are getting better also.

PHILADELPHIA Market continues steadily improving, and the outlook is exceedingly hopeful. The best judges and all the surface indications point to a good fall and winter trade. Every wholesaler in the city is busy and cheerful. The only jarring note we heard is some poor stuff coming in which is hard to move but good stock has found a ready market. Roses and carnations are better quality and except for a bit of mildew on the former are all that can be expected at this season. Dahlias are better than ever — no frost yet and none looked for for a month yet. Asters are still coming in and are fairly good in most cases. Chrysanthemums are an increasing factor — Polly Rose, Glory of the Pacific and Opal being especially in evidence. Lily of the valley fairly steady in spite of quite a number of unusual outside consignments. Double violets are fair but the singles have improved and command the market. Decorations of department stores, etc., continue to use up a good bit of wild smilax, oak leaves, red-hot poker and other outside subjects. Boxwood sprays are in good supply at one wholesale center and are eagerly asked for. The source of supply for same is carefully guarded. Plenty of orchids and extra good.

MONTEAL NEWS.

Thomas Pentress, gardener to A. A. Allan, was thrown from a rig, owing to his horse running away, and had to have his leg amputated at the Royal Victoria Hospital, besides being very seriously hurt otherwise; and now Mr. Price's gardener has met with a similar accident.

James Johnson has sold out his interest in the firm of Cooper & Johnson, nursery and seedsmen, to his partner, and goes this week to be manager at S. A. Fleming's, Brandon, Manitoba. The old firm name will be retained by Mr. Cooper.

CORRECTED CHRYSANTHEMUM SCALE.

Horticulture:

Gardeners. Am sorry to have made a mistake in the exhibition scale as given for publication last week. The authorized scale is as follows:

Color, 10; stem, 10; foliage, 10; fullness, 1; form, 15; depth, 15; size, 25; total, 60.

Yours truly,
FRED H. LEMON, Sec'y C. S. A.

SAN FRANCISCO NOTES.

San Francisco is interested now in a mayoralty candidate. The growers and florists have a strong liking for Mayor Schmitt, who recently made a good fight for the San Francisco Floral Association in their tussle with the flower vendors of the city.

Arrangements have been completed for the flower show to be given jointly by the California State Floral Society and the Pacific Coast Horticultural Society in the nave of the Ferry building on the days of Nov. 9, 10 and 11. This will be the first joint show by the societies, and bids fair to be the most successful in the history of the city. Prizes are offered by the Cox Seed and Plant Company for best displays of roses and chrysanthemums; by the Garden City Pottery Company of San Jose, \$10 for the largest and best collection of ferns; by the Oakland Art Pottery Company, \$10 for the best collection of Luther Burbank creations. Mr. Burbank will be a guest of honor and an elaborate banquet will be tendered him during the progress of the show.

The ladies of the San Rafael Improvement Club are making preparations for their chrysanthemum show on Oct. 21. One of the principal features will be the awarding of prizes to the members of the Junior League for the best kept gardens.

H. Plath of "The Ferneries," at Ocean View, is one of the foremost peritologists of the coast, and his establishment is second to none as a supply source for nice ferns, for which there is a growing demand.

PUBLIC DOCUMENTS RECEIVED.

Report upon school gardens by B. T. Galloway, Chief of Bureau of Plant Industry, Washington, D. C.

Bulletin 106 concerning the agricultural value of sodium salts and Bulletin 108 containing analyses of commercial fertilizers, from the Agricultural Experiment Station at Kingston, R. I.

The forty-fifth annual report of the Board of Park Commissioners of Hartford, Conn., has been received. It is a beautiful production of the printers' art, and being the completion of the tenth year since the reorganization of the Board has taken the form of a souvenir volume, replete with views in the various parks, diagrams and maps, and embodying much instructive information.

The 30th annual report of the Boston Park Commission is just received — a pamphlet of thirty-two pages. Expenditure on account of land and construction for one year to January 31, 1905, are given as \$182,233.26. Maintenance for the same period, \$217,649.67. The total cost of land and construction under this department up to January 31, 1905, has been \$18,479,968.40.

Bulletin No. 1 of the State Superintendent for Suppression of the Gypsy and Brown-tail Moths in Massachusetts has been issued by Superintendent Kirkland. It is freely illustrated and gives all necessary information for recognizing and combating these two pests. A copy should be in the hands of every land owner and everybody interested in the welfare of the tree.

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres Also, Arancarias, Rubbers, Pandanus, Aralias, Dracenas, Aspidistras, Marantas, Crotons etc., etc.

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Keap St. Greenhouses, Brooklyn, N. Y.

NEPHROLEPIS BARROWSII. \$25 PER 100

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HENRY H. BARROWS & SON,
Florists, Whitman, Mass.
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Ten varieties. Fine, well grown stock, suitable for immediate use.

\$3.00 per 100; \$25.00 per 1000.

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ORCHIDS

Just arrived in superb condition CATTLE YEA GIGAS from Hardyana Region. A limited number still left of CATTLE YEA SCHEIDTII from C. G. Gleditsch & C. G. Gleditsch. Write for prices.

LAGER & HURRELL

Orchid Growers and Importers, SUMMIT, N. J.

In writing advertisers, mention Horticulture

VIOLETS.

Maria Louise, strictly clean, healthy plants from soil, \$2.50 a 100, \$25.00 a 1000. Smaller sizes at half the above rates.

Asparagus Plumosus Nanus. Fine stock from 3 in. pots, \$1.00 a 100, \$10.00 a 1000.

R. KILBOURN, CLINTON, N. Y.

Dreer Special Offer of Seasonable Stock

Araucaria Excelsa

6 in. pots.	12 to 14 in. high.	3 to 4 tiers.	\$.75 each.
6 " "	15 to 18 " "	4 " "	1.00 " "
7 " "	18 to 20 " "	4 " "	1.25 " "
7 " "	24 to 30 " "	5 " "	1.50 " "

The above are the best values we have ever sent out, especially the size at \$1.50 each.

Araucaria Excelsa Clauca

6 in. pots.	13 to 15 in. high.	3 tiers.	\$1.25 each.
7 " "	18 to 20 " "	4 " "	1.75 " "
7 " "	20 to 24 " "	4 to 5 " "	2.00 " "

Araucaria Robusta Compacta

6 in. pots.	10 to 12 in. high.	2 to 3 tiers.	\$1.25 each.
6 " "	12 to 14 " "	3 " "	1.50 " "
7 " "	16 to 18 " "	3 to 4 " "	2.00 " "

Asparagus Sprengeri

2 1-4 in. pots.	\$.50 per doz.	\$4.00 per 100.
8 " pans.	.60 " "	" "

Asparagus Plumosus Nanus

2 1-4 in. pots.	.60 " "	4.00 " "
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Asparagus Tenuissimus

3 " "	.75 " "	6.00 " "
4 " "	1.25 " "	10.00 " "

Begonia Cloire de Lorraine

3 " "	2.00 " "	15.00 " "
4 " "	4.50 " "	35.00 " "

Begonia Light Pink Lorraine

3 " "	2.00 " "	15.00 " "
4 " "	4.50 " "	35.00 " "

Chrysanthemum Alexandra

The New Paris Daisy	1 " "	1.25 " "	10.00 " "
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Per Doz. Per 100.

Dracena Massangeana 5 in. pots. \$9.00

" Lindenl 5 " " 9.00

" Terminalis 2 1-4 " " 1.00 \$8.00

Ficus Elastica 6 " " 6.00 50.00

Nephrolepis Scottii 2 1-4 " " .75 6.00

" " 3 " " 1.50 10.00

" " 4 " " 3.50 25.00

" " 5 " " 6.00 50.00

" " 6 " " 9.00 75.00

" " 8 " " 15.00

" " 10 " " 15.00

" Barrowsii 3 " " 3.50 25.00

" Piersoni 2 1-4 " " .75 5.00

" " 2 1-4 " " 3.00 25.00

Adiantum Cuneatum 2 1-4 " " \$3.00 Per 100. Per 1000.

" " 3 " " 6.00 \$25.00

Alsophilla Australis 2 1-4 " " 8.00

" " 3 " " 10.00

Ferns in mixture for dishes 2 1-4 " " 3.00 25.00

" " 3 " " 6.00 50.00

Pandanus Veitchi, fine plants 6 " " Per Doz. Per 1000.

Petunias, Dreer's Double 3 " " \$12.00

1.25 10.00

Bay Trees

New Imported Stock, Fresh, Dark Green, Excellent Values

Standard or Tree-Shaped

Height of Stems. Diameter at Base. Each

42 to 45 in. . . . 24 to 26 in. . . . \$6.00

42 to 45 " . . . 26 to 28 " . . . 7.50

42 to 45 " . . . 30 to 32 " . . . 10.00

42 to 45 " . . . 34 to 36 " . . . 12.50

42 to 45 " . . . 40 to 42 " . . . 15.00

6 to 7 " . . . 36 " . . . 15.00

6 to 7 " . . . 42 " . . . 20.00

Pyramidal-Shape.

Height of Stems. Diameter at Base. Each

4 1-2 feet. . . . 24 to 26 in. . . . \$6.00

4 1-2 " . . . 26 to 28 " . . . 7.50

4 1-2 " . . . 30 to 32 " . . . 10.00

4 1-2 " . . . 34 to 36 " . . . 12.50

4 1-2 " . . . 40 to 42 " . . . 15.00

6 to 7 " . . . 42 " . . . 20.00

Dwarf Standard Bay Tree

This is something comparatively new that will meet with a ready sale; these are very dwarf, stems being but 18 to 24 inches high with crowns 24 to 26 inches in diameter. \$6.00 each.

Imperial Standard Bays

Another entirely new form; these are really pyramids, grown on a stem like an ordinary standard, the stems are about 42 inches high, the pyramidal crown is 4 feet high and from 34 to 36 inches in diameter at base. \$15.00 each.

For a complete list of Seasonable Stock, including Ferns, Palms, Decorative Plants, Hardy Perennials, Hardy Shrubs, Bulbs, Seeds, etc., see our New Wholesale Price List issued September 1st.

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W. J. Baker, 1432 So. Penn Sq.
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ORCHIDS AND GARDENIAS

RIBBONS AND SUPPLIES.

Samuel S. Pennock
The WHOLESALE
FLORIST OF PHILA.

Commencing June 26th will close at 6 P. M.

WHOLESALE FLOWER MARKETS TRADE PRICES - Per 100 - TO DEALERS ONLY

	CHICAGO Oct. 3	ST. LOUIS Oct. 1	PHILA. Oct. 1	BOSTON Oct. 5
ROSES				
Am. Beauty and Edgely Fan, & Sp.	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00	25.00 to 35.00
Extra.	18.00 to 20.00	15.00 to 20.00	15.00 to 20.00	15.00 to 20.00
No. 1 and Lower Gr.	10.00 to 15.00	10.00 to 12.50	8.00 to 10.00	6.00 to 8.00
Lower grades.	2.00 to 8.00	3.00 to 5.00	3.00 to 5.00	2.00 to 5.00
Bride & Maid-Fan, & Sp.	6.00 to 8.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Extra.	4.00 to 5.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
No. 1 and Lower Gr.	1.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Liberty, Fancy & Special.	5.00 to 8.00	4.00 to 5.00	5.00 to 8.00	5.00 to 8.00
Ordinary.	2.50 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Carnot and Kaiserin Fancy.	6.00 to 8.00	4.00 to 5.00	5.00 to 8.00	4.00 to 5.00
Ordinary.	2.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Golden Gate, Chateauf, Fan y.	4.00 to 6.00	4.00 to 5.00	5.00 to 8.00	4.00 to 5.00
Ordinary.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
CARNATIONS				
Fancy Class	2.50 to 2.50	2.00 to 2.50	1.50 to 2.00	1.50 to 2.50
General Class and Lower grades.	.75 to 1.50	1.00 to 1.50	.75 to 1.00	1.00 to 1.50
MISCELLANEOUS				
Cattleya.	50.00 to 60.00	..... to .....	..... to	40.00 to 50.00
Lily of the Valley.	2.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Asplen.	4.00 to 2.00	50 to 1.50	..... to	3.5 to 1.00
Violet.	.50 to 1.00	..... to .....	..... to .....	.50 to .75
Glad.	2.00 to 4.00	..... to	2.00 to 4.00	2.00 to 4.00
Dahlia.	1.00 to 3.00	2.00 to 6.00	1.00 to 3.00	1.00 to 3.00
Adiantum Cuneatum.	.50 to .75	75 to 1.00	..... to .....	.75 to 1.00
Crocus.	..... to .....	..... to .....	..... to	1.00 to 1.50
Smilax.	8.00 to 12.00	12.50 to 15.00	10.00 to 12.00	8.00 to 12.00
Asp. rugos Plumosa.	15.00 to 35.00	25.00 to 50.00	25.00 to 50.00	35.00 to 50.00
Sprengeri, bunches.	10.00 to 35.00	25.00 to 50.00	35.00 to 50.00	25.00 to 35.00

EARLYMUMS Right Prices-Prompt Returns CARNATIONS

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W. E. McKISSICK

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WIETOR BROS.

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51 WABASH AVE., CHICAGO

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A Daily Shipment

From 40 to 60 Growers

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Choice Chrysanthemums, Beauties, Violets, Carnations, Etc.

EVERYTHING SEASONABLE IN
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EDWARD REID, Wholesale Florist
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Store Closes 7 P. M. During October

IN WRITING TO ADVERTISERS
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BEAUTIES, LILY OF THE VALLEY, CHRYSANTHEMUM

WHOLESALE FLORISTS

Phila. Cut Flower Co., 1516-1518
SANSOM ST., PHILA.

GROWERS' NOTICE

We are Open to Handle Anything
Good. We make weekly returns.

In Vacation Time



It has often been intimated that a cut-flower commission man has no business to take vacations, but should stay at home and look after his consignments, yet they persist in doing it. Some of them, as the two gentlemen in the accompanying illustrations—S. S. Pennock of Philadelphia and P. Welch of Boston—being men of extreme sensibility to the charms of nature, are wont to retire to the mirrored waters, as disciples of Isaak Walton, where amid the music that comes from the woods and dingles, and the splashing of the waves, philosophy luxuriates as in the ancient

grove of Academus and all thoughts of "specials and extras," "C. O. D.'s," shipping tags, and "returns" are effectually obliterated.

As we scan the features of these two sportsmen we can see that both are happy and perhaps we'd better leave them so. But P. Welch, as he reverts to his exciting experiences with that 14-pound land-locked salmon, pays his respects to his Philadelphia rival thus:

"What? flounders! Why, tell him that down at Old Orchard tons of those things are washed up on the shore after every storm, and the board of health is given just twenty-four hours

in which to get out their carts and pitchforks and clean up the beach. I'm greatly surprised at Sam!"

Each of these gentlemen seems to have forestalled the usual skepticism that he might encounter in telling of his feats and, by similar mental processes, arrived at the conclusion that some sort of ocular proof might be desirable; hence these photographs. And just here the question arises—Can a commission man be a fisherman and still retain his reputation for veracity? This serious problem takes the matter out of the domain of local gossip and makes it one of national importance.

NEWS NOTES.

F. X. Millman, Jr., has started in business at Cumberland, Md.

Robert Chesney of Montclair, N. J., has been succeeded in business by F. W. Massman.

David V. Tuttle has been appointed head gardener on the J. A. Folger estate at Woodside, Calif.

Mrs. Barbara Gear of Cincinnati, O., mother of the well-known florists Fred

and William Gear, died on October 1, after a lingering illness.

The business of the late Hugo Stahlhut, Shepherd avenue and New Lots road, Brooklyn, N. Y., has been purchased by Otto Finger.

Two new retail stores have been opened on Madison avenue, New York: one at 75th street by Alexander Warendorff; the other at 61th street by Christatos & Co.

The Tinsley Seed Co. has been in-

corporated with a capital stock of \$5,000 by James G. Tinsley, Richmond, Ky.; twenty-five shares; G. T. Tinsley, Nashville, and E. C. Folz, Louisville, each twelve and one-half shares.

The Charleston Cut Flower Co. of Charleston, W. Va., can now be found at 615 Virginia street. The loss sustained by them in the fire which drove them from their old location is said to be about \$1500, on which there was an insurance of \$800.

FRANK MILLANG

Wholesale Commission Florist

LOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 290 Madison Sq. Open 6 A. M. to 5 P. M.

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Red Carnations**"Victory"**To be disseminated 1906. Also a complete
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THE HIGHEST GRADE OF VALLEY ALWAYS ON HAND

BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

JAMES McMANUS Telephone 757 Mad. Sq. 50 W. 30th St., New York**WM. GHORMLEY**

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FINEST ROSES All VarietiesCarnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the
year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones: 2200, 2201, Madison Square

Write for Current Prices

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Sept. 30 1905	First Half of Week beginning Oct. 2 1905		Last Half of Week ending Sept. 30 1905	First Half of Week beginning Oct. 2 1905
Roses					
Am. Beauty, fan and sp.....	20.00 to 25.00	12.00 to 25.00	Carnations		
" extra.....	8.00 to 12.00	5.00 to 12.00			
" No. 1.....	4.00 to 8.00	4.00 to 8.00	Fancy Class.....	2.00 to 3.00	2.00 to 3.00
" Lower grades.....	1.00 to 3.00	1.00 to 3.00	General Class and Lower grades...	.75 to 1.00	.75 to 1.00
Bride & 'Maid, fan and sp.....	3.00 to 5.00	3.00 to 5.00	Cattleyas	2.00 to 40.00	20.00 to 40.00
" extra.....	2.00 to 3.00	2.00 to 3.00	Lily of the Valley	1.00 to 2.00	1.00 to 2.00
" No. 1 and lower grades.....	.35 to 1.00	.15 to 1.00	Asters.....	.25 to 2.00	.50 to 2.00
Liberty, fan, and sp.....	4.00 to 6.00	8.00 to 10.00	Gladioli.....	.50 to 1.00	.50 to 1.00
" Ordinary.....	1.00 to 4.00	1.00 to 4.00	Lilies	6.00 to 16.00	6.00 to 10.00
Carnot and Kaiserin, fancy.....	3.00 to 5.00	3.00 to 5.00	Violets.....	.20 to .50	.20 to .50
" Ordinary.....	.35 to 1.00	.35 to 1.00	Dahlias.....	.50 to 1.00	.50 to 1.00
Golden Gate, Chateaux, fancy.....	3.00 to 5.00	3.00 to 5.00	Adiantum Cuneatum	1.00 to 1.25	.25 to .50
" Ordinary.....	.35 to 1.00	.35 to 1.00	" Crownatum.....	1.00 to 1.00	1.00 to 1.00
			Smilax	8.00 to 10.00	6.00 to 10.00
			Asparagus Pinnosus , string.....	10.00 to 25.00	15.00 to 25.00
			" Sprengeri, bunches.....	10.00 to 15.00	10.00 to 15.00

Edward C. Horan

Wholesale Florist

55 WEST 28th ST.

Tel. 1462
1463 Madison Sq.

New York

JOHN YOUNG

Wholesale FLORIST

51 West 28th St., New York

Telephone, 4413-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

Lilies. Renowned Cottage

Garden Carnations.

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Furnish best stock at fair prices all the year round Send for quotations on fall orders:

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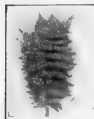
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Taking Orders for Flowers to be Delivered to Steamers or Elsewhere New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

42 W. 28th St., New York

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Fancy Ferns

90 Cents per 1000

Discount on Regular Shipments

Wholesale Florists

30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange
WM. DILGER
Manager

Charles Millang

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Cut Flowers on Commission

A Reliable Place to Consign to or order from

Telephone: 3860-3871 Madison Square

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JULIUS LANG

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ESTABLISHED 1872

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115 W. 30th St., New York

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 Wanted—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

JAMES A. HAMMOND.

Wholesale Commission Florist

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Tel. 854 Madison Sq.

 Consignments receive conscientious and prompt
attention. Highest market price guaranteed
The finest stock in the market always on hand

Chrysanthemums, Carnations

AND ROSES

Pittsburg Cut Flower Co., Ltd.

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Decorating Evergreens, etc., at Wholesale

 Wild Smilax, Palmetto and Cycas
(fresh cut), Palm Leaves, Galax, Leu-
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Orchid and Azalea Peats.

Everything in Season.

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ALL VARIETIES

SHIPPED TO ALL POINTS

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Largest Stock in New England
Lowest Wholesale Rates

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84 HAWLEY ST.

Tel. Main 5973

BOSTON

Headquarters in Western New York for

Roses

Carnations

And all kinds of Seasonable Flowers

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Wholesale Commission Florist

 Also Dealer in Florists' Supplies and
Wire Designs

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Give us a Trial

We can please you

DACER AND FANCY FERNS

\$1.00 per 1000

Discount on large orders

NEW CROP SOUTHERN WILD SMILAX

\$3.50 and 7.00 per Case

GALAX, New crop, Green \$1.00; bronze \$1.50 per 1000

 Headquarters for all **FLORISTS' SUPPLIES**. Wire
Designs—Cut Wire, Letters, Immortelles, 1 year Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL, FESTOONING, etc. and net, per yard.

 HENRY M. ROBINSON & CO., 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618.


WHOLESALE FLOWER MARKETS.

TRADE PRICES—Per 100—TO DEALERS ONLY

	CINCINNATI Oct. 3	BA. TILGORE Oct. 3	BUFFALO Oct. 3	PITTSBURG Oct. 3
ROSES				
Am. Beauty, fan, and sp.	to 25.00	to 10.00	to 25.00	to 25.00
" extra.	18.00	to 20.00	to 12.00	to 18.00
" No. 1.	12.50	to 14.00	to 8.00	to 12.00
" Lower grades.	6.00	to 3.00	to 5.00	to 6.00
Pride and Maid, fan, and sp.	to 5.00	to 10.00	to 6.00	to 6.00
" extra.	3.50	to 4.00	to 4.00	to 3.50
" No. 1 and Lower gr.	1.00	to 1.50	to 2.00	to 1.50
Liberty, fan, and sp.	to 10.00	to 10.00	to 7.00	to 6.00
Carnot and Kaiser, fan.	to 5.00	to 4.00	to 5.00	to 4.00
" Ordinary.	4.00	to 4.00	to 3.00	to 4.00
Golden Gate, Chateau, Fancy	2.00	to 5.00	to 4.00	to 3.00
" Ordinary.	to 2.00	to 3.00	to 4.00	to 5.00
CARNATIONS				
Fancy Class.	to 2.00	to 1.00	to 2.00	to 1.50
General Class.	1.00	to 1.50	to 1.00	to 1.50
MISCELLANEOUS				
Cattleyas.	to 10.00	to 10.00	to 10.00	to 10.00
Lily of the Valley.	to 4.00	to 10.00	to 1.00	to 4.00
Asters.	25	to 1.50	to 1.50	to 1.50
Violets.	to 10.00	to 10.00	to 75	to 75
Gladioli.	to 2.00	to 2.00	to 3.00	to 3.00
Dahlias.	to 1.00	to 75	to 1.00	to 1.00
Lilies.	to 10.00	to 10.00	to 10.00	to 10.00
Adiantum.	to 1.00	to 1.00	to 1.00	to 1.00
Crocus.	to 1.00	to 1.00	to 1.00	to 1.00
Smilax.	to 12.00	to 15.00	to 20.00	to 15.00
Asparagus Plumosus, strings.	1.50	to 25.00	to 50.00	to 25.00
Sprengeri, bunches.	25.00	to 35.00	to 50.00	to 50.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

TO BUYERS

Patronize our Advertisers, they will treat you right

Florists

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Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

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516 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

Theatre and Steamer Orders MADE UP AND DELIVERED

Usual Commission on Transferred Orders.

WM. H. DONOHUE

2 West 29th St., New York City

Telephone 684 Madison.

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John Breitmeyer's Sons

Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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1214 F ST., WASHINGTON, D. C.

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

FRED C. WEBER FLORIST

4326-28
OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the above society was held in the society's rooms on the evening of Tuesday, Sept. 26th, over thirty members being present.

The monthly prize donated by John Featherstone for the best exhibit of dahlias was won by James Ballantyne, who staged a fine collection of well-grown flowers.

The F. R. Pierson Co. made a very interesting exhibit of a number of the newer varieties of dahlias, and John Featherstone a pretty exhibit of tuberous rooted begonias.

James T. Scott gave a very interesting lecture on leaves, their forms, functions and uses, illustrating his remarks by a variety of leaves.

After the business of the meeting was over, light refreshments were served and the members present passed a very pleasant hour with music, singing and recitations.

WM. SCOTT, Cor. Sec'y.

HARTFORD FLORISTS' CLUB.

The regular meetings of the club were resumed on the 19th inst. with a creditable attendance of members. President Huss gave a highly interesting account of his two months' sojourn in France, Switzerland and Italy. His description of the Alpine flora at different altitudes was especially appreciated and he was awarded a hearty vote of thanks. Treasurer Scrivener and Secretary Ruedlinger submitted their semi-annual reports which showed that the affairs of the club, financial and otherwise, were in a flourishing and vigorous condition. Peter Zuger was awarded a certificate of merit for a new seedling begonia. This novelty is the result of a cross between B. Erfordt and B. Bijou, foliage bright yellow, habit neat and compact, height six inches. It stands the sun well and promises to be a valuable addition to the list of dwarf bedding varieties.

FLORISTS' CLUB OF PHILADELPHIA.

Thomas Meehan was elected president of the Florists' Club of Philadelphia at its annual meeting, held on the 3rd inst. Fred Hahman was made vice-president. The offices of secretary and treasurer were filled by the old incumbents, Edwin Lonsdale and J. William Colfesh, John Westcott, the retiring president, received an ovation when he made his farewell speech. The special program for the November meeting will be (1) a president's reception, (2) a greeting and open house to the out-of-town visitors to the flower show and (3) a paper by Dr. Roberts on the influence of flowers in sick rooms.

BOSTON MYCOLOGICAL CLUB.

The Mycological Club had a big exhibition of fungous growths at Horticultural Hall, Boston, last Saturday, more than one hundred varieties being shown by the various exhibitors. This club numbers nearly four hundred members and gives particular attention to investigations as to the food value of the mushroom family. Their exhibitions attract large numbers of deeply interested visitors. Lectures with stereopticon illustrations are planned for the coming winter.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Florists' Supplies

We manufacture all our

Metal Designs, Baskets, Wire Work & Novelties

and are dealers in

Glassware, Decorative Greens and Florists' Requisites.

NOTES.

The Horticultural Society of New York will hold an exhibition of flowers and fruit at the Botanical Garden, October 11 and 12.

The executive committee of the St. Louis Florists' Club announce that all premiums awarded at the exhibition next month will be paid in full on the last day of the show.

The Bay Shore Horticultural Society will hold its second annual exhibition at the Carleton Opera House, Bay Shore, N. Y., on October 24 and 25. Liberal premiums are offered and copies of the schedule may be obtained by applying to the secretary, J. J. Carroll, Bay Shore, N. Y.

The next meeting of the New York Florists' Club will take place Monday evening, Oct. 9. A fine exhibition of dahlias and early chrysanthemums is promised. Those having novelties in any line of plants or cut flowers are invited to bring or send them in care of Secretary John Young, 51 West 28th Street. The attendance at this meeting should be large.

AUCTION SALES every TUESDAY and FRIDAY

An excellent opportunity to stock up with a high class of Decorative Stock, grown by well known growers. Will also offer each day Bulbs, Dutch and Bermudian.

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We have special low prices to offer and can save you money on

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Write us for price, before ordering elsewhere. Prompt shipment guaranteed.

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One of the largest and finest collections for winter and spring blooming ever offered.

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Lilies, Japanese Plants

BAMBOO STAKES

SUZUKI & IIDA

31 Barclay Street, New York

WHAT THEY SAY OF US.

Please find subscription for one year to Horticulture. I think it is a very nice paper; should have subscribed before but have been busy completing my new greenhouse. S. W.

Enclosed find \$1.00 for payment for Horticulture for a year. Your magazine is an interesting one and we consider it a favorable addition to our office literature. We wish you to continue sending it until notified to stop.

Very truly yours,

E. C. N. CO.

SWEET PEA CHRISTMAS

The new strain has proved to be very superior for florists' use. In habit it is similar to *Blanche Terry*, the pink showing up brighter than in that old favorite. It is an early and continuous bloomer, coming into bloom in about ten weeks. When the bottom branches commence to flower, stems about fourteen inches long with four flowers on a spray are the rule. It is a dwarf grower, rarely reaching over five feet. Many of our customers have spoken highly of this strain, and I have pleasure in recommending it to all who grow sweet peas for market.

	oz.	lb.
Pink and White	\$.25	\$2.00
Pure White	.25	2.00

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Also Other varieties of Sweet Peas at usual market prices.

Ivies, Euonymus, Acubas, Gardenias

IVIES 1000 pot grown 3 to 5 feet high bushy, 12 cents.

EUONYMUS RADICANS, variegated, pot grown, 18 in. to 2 feet long, bushy, 12 cents.

EUONYMUS from open ground, 8 cents.

EUONYMUS UPRIGHT, 112 feet high, yellow and white variegated, 15 cents.

ACUBAS, 18 in. high, pot grown, 15 cents.

120 GARDENIAS from 1 to 2 feet high, fine, healthy, bushy plants, 18 cents.

No less than 50 of any kind will be sent.

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Useful Ferns

Holly Fern (C. falcatum) 2½ in. pots, \$3.00

Platystrophia, 5 in. pots, 25.00

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BULB GROWERS

HILLEGOM, HOLLAND.

Headquarters for High Class

Hyacinths, Tulips,

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Narcissi and Peonies

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A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

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GIGANTEUM STRAIN

Seen taken of only selected flowers and well-built stock. None better.

3-in., \$7.00; 4 in., \$12.00; 5-in., \$65.00 per 100

Seed of above strain, new crop, \$6.00 per 1000. Try it.

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Acacia, Black, 1 in. to 2 in.	50	1.00
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Acacia, Black, 3 in. to 4 in.	200	1.00
Acacia, Black, 4 in. to 5 in.	200	1.00
Acacia, Black, 5 in. to 6 in.	200	1.00
Acacia, Black, 6 in. to 7 in.	200	1.00
Acacia, Black, 7 in. to 8 in.	200	1.00
Acacia, Black, 8 in. to 9 in.	200	1.00
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Good buyers for Tulips, Hyacinths, Crocuses, Daffodils, etc., and all other bulbs. Write to GOTTAGE FLORAL CO., 751 Crawford St., Cleveland, O.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.
A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitches Piersen Co.,
113 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulberg Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE MASON WORK.

H. H. Sylvester, 818 Tremont Bldg., Boston.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 E. 40th St.,
Detroit, Mich. Wm. Dilger, Mgr.
Fancy Ferns.
For page see List of Advertisers.

HEATING APPARATUS.
Burnham Hitches Piersen Co.,
113 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPATIENS HOLSTII.

W. W. Rawson & Co., Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants tender or hardy.
For page see List of Advertisers.

K. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

LADY CAMPBELL VIOLETS.

Strong, healthy field-grown plants, free
from disease, packed to carry safely free
of charge. No. 1, \$2.50 per 100, \$20 per
1000; No. 2, nice plants, \$1.50 per 100,
\$10 per 1000, good and very cheap. Ad-
dress Charles Black, Hightstown, N. J.

W. H. Thomas, Convent St., Morris
Co., N. J.
For page see List of Advertisers.

LAWN MOWER SHARPENER.

George C. Watson, Philadelphia, Pa.
For page see List of Advertisers.

LILY BULBS.

Ralph M. Ward & Co., 12 W. Broadway,
New York.
Bermuda Harlequin Bulbs.
For page see List of Advertisers.

LILY BULBS.—Continued.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

A. T. Boddington, 342 W. 14th St.,
New York.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
Cutler, Scroeder, New York.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

E. F. Hotchkiss, 48 Wabash Ave.,
E. Orange, N. J.
For page see List of Advertisers.

PAEONIES.

George Hollis, S. Weymouth, Mass.
For page see List of Advertisers.

Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PANSY SEEDLINGS.

J. Condon, 734 Fifth Ave., Brooklyn, N. Y.
For page see List of Advertisers.

PEACH PITS.

Franklin Davis Nursery Co.,
Baltimore, Md.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Koehrs, Rutherford, N. J.
For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

POINSETTIAS.

G. C. Watson, Philadelphia.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 23rd St., New York.
For page see List of Advertisers.

Fred C. Weber, 4233 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeier's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. Roses and Ramblers.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

English-Grown Roses.
For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Kensington, Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall St., Boston.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

SEEDS.—Continued.

Joseph Brock & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinnville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Ex-
hib. 1789. High grade grass, Clover, and Tree Seeds.

STEAM TRAP.

E. Hildard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitches Piersen Co.,
113 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VIOLET PLANTS.

Mrs. Leslie H. Fellows, Hyde Park, Mass.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.

WHOLESALE FLORISTS.

Buffalo.
For page see List of Advertisers.

Wm. F. Kastlag, 383-37 Ellicott St., Buf-
falo, N. Y.

WHOLESALE FLORISTS.

Chicago.
For page see List of Advertisers.

J. A. Budington, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reininger, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Kisch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Wabash
Ave., Chicago.

WHOLESALE FLORISTS.

Cincinnati.
Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

WHOLESALE FLORISTS.

Detroit.
For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
Miami Ave.

WHOLESALE FLORISTS.

New York.
For page see List of Advertisers.

Bonnet Bros., 65-67 West 28th St., New
York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 57 W. 28th St., New York.
Alex. J. Guttmann, 43 West 28th St.
Jas. A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.
Julius Long, 57 West 30th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 28th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Trandly & Schenck, 44 W. 28th St., New
York.

John Young, 51 W. 28th St., New York.

WHOLESALE FLORISTS.

Philadelphia.
For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.
Dumont & Co., Philadelphia.
W. E. McKissick, 1614 Filbert St., Phila-
delphia, Pa.
Leo Messer Co., 1217 Arch St., Phila-
delphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

WHOLESALE FLORISTS.

Pittsburg.
For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

BAY TREES.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

BULBS.

Schlegel & Fetter Co., Boston.
For page see List of Advertisers.

CARNATION SUPPORT.

Igoe Bros., 225 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

CHRISTMAS GOODS.

H. Bayersdorfer & Co., Philadelphia.
For page see List of Advertisers.

CHRYSANTHEMUMS.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

CYCLAMEN SEED.

W. W. Rawson & Co., Boston.
For page see List of Advertisers.

GARDENIAS.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

GERANIUM CUTTINGS WANTED.

J. A. Keeney, Monongahela, Pa.
For page see List of Advertisers.

GIANT DAHLIA BLOOMS.

L. K. Penock, Inc., Acton, N. J.
For page see List of Advertisers.

GREENHOUSES FOR RENT.

Chas. E. Parker, Sta. A., Worcester, Mass.

IVIES, EUONYMUS, ACUBAS, GARDENIAS.

Charles Ammann, Central Ave.,
Yonkers, N. Y.
For page see List of Advertisers.

PANSIES, DAISIES, FORGET-ME-NOTS, GERANIUMS.

J. C. Schmidt Co., 521 Otter St.,
Bristol, Pa.
For page see List of Advertisers.

PEONIES AND PHLOX.

H. A. Stevens Co., Dedham, Mass.
For page see List of Advertisers.

ROOTED CUTTINGS AGERATUM, COLEUS, HELIOTROPE, GERANIUM.

Cottage Floral Co., 751 Crawford Rd.,
Cleveland, O.
For page see List of Advertisers.

SECOND-HAND BOILER.

Edmund Reardon, 28 Henry St.,
Cambridgeport, Mass.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.

SWEET PEA CHRISTMAS.

G. C. Watson, 1041 Lindber St.,
Philadelphia.
For page see List of Advertisers.

VIOLETS.

R. Kilbourn, Clinton, N. Y.
For page see List of Advertisers.

GREENHOUSES BUILDING AND PROJECTED.

Reading, Pa.—Samuel Gehman,
house 16350.
San Francisco, Cal.—H. Plath, one
house, 26380.
Spencer, Mass.—Frank J. Prouty,
carnation house.
Woodhaven, N. Y.—G. Neipp, carnation
house. J. Mullhauser, range of
carnation houses.

SEED TRADE.

Among the week's visitors to Boston were Frank T. Emerson of the Western Seed & Irrigation Company, Fremont, Neb., and W. C. Langbridge, representing Jerome B. Rice, Cambridge, N. Y.

The Philadelphia seed stores report an unusually early opening of the fall trade. Large sizes of Liliun Harisii, many varieties of tulips, and the smaller sizes of Roman hyacinths are already sold out, and all hands have stopped taking orders for Japan longiflorum in view of the uncertainty of arriving consignments and the heavy orders already booked.

Boston seedsmen all report a phenomenal business in bulbs this fall. The call for special forcing varieties of tulips and other things is greater than for several years. It might be added that bulbs generally are of very good quality.

Boston Grass Seed Report.

Blue grass and prime timothy are steady at the advance noted last week. Demand for fall sowing is moderately active and compares favorably with that apparent at this time last year. Prices have suffered no quotable changes during the week.

Clover, West Ib.	13 1/2 @ 14c.
do. North Ib.	14 @ 15c.
do. white Ib.	15 @ 18c.
do. Alsike	13 1/2 @ 14c.
Alfalfa or Lucerne Ib.	13 @ 15c.
Red top, per sack	82 @ 86 1/2 50
West	82 @ 86 1/2 50
Jersey	3.00 @ 3.25
Clear	75 @ 90c.
R. I. Bent per bu.	1.75 @ 2.00
R. I. Cent. Bent.	20 @ 25c.
Hungarian	1.00 @ 1.10
Golden Millet:	
Wyandott	1.25 @ 1.30
Tennessee	1.50 @ 1.60
American	1.15 @ 1.25
Orchard, per bu.	1.85 @ 2.00
Blue Grass, bu.	1.60 @ 1.75
Timothy, prime	1.85 @ 2.00
Timothy, choice	1.95 @ 2.05
Alsike, bu.	2.25 @ 2.36
Seed barley	85 @ 1.15
Ruckwheat	90 @ 1.00
Winter rye	1.00 @ 1.10

—Commercial Bulletin.

CATALOGUES RECEIVED.

T. V. Munson & Co., Denison, Texas. Tree planters' handbook. Especially strong on grapes.

Thos. J. Grey & Co., 32-33 South Market Street, Boston. Catalogue of bulbs, fertilizers and poultry supplies.

The Templin Co., Calla, O. Fall catalogue. Handsome colored cover outside and a plethora of good things within.

Otto Katzenstein & Co., Atlanta, Ga. Trade price list of trees and shrub seeds, roots and bulbs. Text in English and German.

Sonpert & Notting, Luxembourg. General catalogue of roses for 1905-1906. Describes 2639 named varieties, including the novelties of 1905.

W. W. Rawson & Co., 12-13 Faneuil Hall Sq., Boston. General autumn catalogue. Spring flowering bulbs, hardy border plants, ornamental shrubs and vines and Rawson's hothouse cucumber—which is a beauty—are all included.

"Do not do things as your competitor does them. Do not imitate. Do not follow, but blaze your own way, make your own path. Originality is power, imitation death."

WANTS.

WANTED 1000 Field-Grown

RAMBLERS

Quote size and price for cash.

FORCER, care Horticulture,

11 Hamilton Place, Boston.

FOR RENT

Greenhouses four miles out of city of 140,000 population, 3-4 mile from R. station. One house 24x80; 3 houses each 12x70. Partly stocked with carnations and violets. Apply to

CHAS. E. PARKER,

Sta. A., Worcester, Mass.

SITUATION WANTED.—As assistant on private place where orchids, palms and roses are grown. Single, 28. Practical experience in general stock. Address E. L. R., care Horticulture, 11 Hamilton Place, Boston.

MR. WALTER KENNEDY, Floral Expert, wide experience of Australia and Southern Hemisphere generally, will shortly arrive, and will be glad to receive offers of engagement in first-class Floral Store. Address Expert, care Horticulture, 11 Hamilton Place, Boston, Mass.

SITUATION IN RETAIL STORE.—Lady wishes situation, preferably in eastern city. Good experience and competent to take charge of floral department. Character and ability fully vouched for by past employers. Address Business, care HORTICULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED.—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address K. H., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED.—A competent palm grower. Only one who has had ample experience and who is an up-to-date man need apply for a permanent position. Address, Palm Grower, care Horticulture, 11 Hamilton Place, Boston.

BUSINESS CHANGES.

James B. Hutchinson, of Hillsboro, Ill., has sold his nursery to William Price, who will close out the nursery business and devote the farm to market gardening.

R. A. Ralston has leased for a term of three years the city greenhouse at Ashbury Park, N. J. They were given up by the Public Grounds Commission because they were not considered a paying investment for the city.

LIST OF PATENTS.

Issued September 19, 1905.

799,669. Combined Cutting and Raking Implement. Eugene S. Resnier, Galesburg, Ill.

799,999. Means for Training Young Trees. Jules C. Massard, Nantes, France.

Issued September 26, 1905.

800,136. Lawn sprinkler. Barney Brown, Longbeach, Cal.

800,371. Fruit picker's sack. Elam Harter, Riverside, Cal.

FOR SALE

A Gould Heater "second hand". Will heat 1500 feet glass. Removed because not large enough for present house. Price \$30. Edmund Reardon, 38 Henry street, Cambridgeport, Mass.

POT MAKERS FOR 140 YEARS

A. H. Hews & Co. Inc.

CAMBRIDGE MASS.
D. N. N. I. N. E. V. E. R. Y. O. F. O. R. M. T. S. I. 8. 0. 7. 5.

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32 feet or longer
HOT BED SASH
PECKY CYPRESS BENCH LUMBER
GREENHOUSES
ERECTED AND EQUIPPED COMPLETE IF DESIRED

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NEPONSET, BOSTON, MASS.

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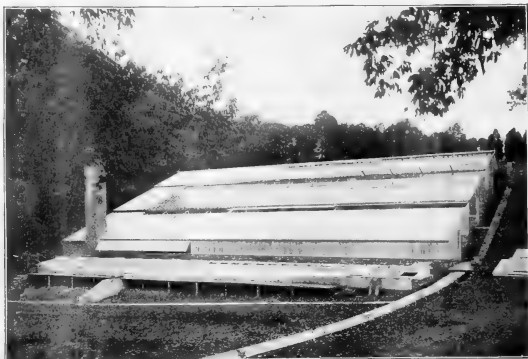
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HORTICULTURE

Vol. II.

OCTOBER 14, 1905

No. 16



SPECIMEN *HYDRANGEA HORTENSIS*
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LANDSCAPE GARDENER
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HORTICULTURE

VOL II

OCTOBER 14, 1905

NO. 16

PUBLISHED WEEKLY BY

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WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Hydrangea hortensis		Chrysanthemum Society of America.....	397
HYDRANGAEA THOMAS HOGG IN WASHING- TON—Illustrated	391	New Jersey Horticultural Society.....	397
RETARDING HYDRANGAEA PANICULATA GRANDIFLORA—J. R. Freeman—Illustrated....	391	Newport Horticultural Society.....	397
ECHOES FROM ENGLAND—Harry H. Thomas..	392	Society of American Florists.....	397
HYDRANGAEA HORTENSIS.....	393	CUT FLOWER MARKET REPORTS	
HYDRANGAEA HORTENSIS IN NEWPORT— D. McIntosh.....	393	Boston, Buffalo, Chicago, Cincinnati, Louisville, New York, Philadelphia, Twin Cities, San Francisco	399
EDITORIAL	394	MISCELLANEOUS	
SEED TRADE.....	395	Out of the Bean Pod.....	395
NEWS OF THE CLUBS AND SOCIETIES—Notes..	395	Wholesome Chestnuts.....	395
New York Florists' Club.....	396	New Publication, The Chrysanthemum.....	395
Gardeners' and Florists' Club of Boston.....	396	News Notes.....	395
Massachusetts Horticultural Society.....	396	Personal	395
Nassau County Horticultural Society.....	396	Obituary	395
Huntington Horticultural Society.....	396	Philadelphia Facts and Fancies—Illustrated..	402
		Greenhouses Building and Projected.....	406
		List of Patents.....	406

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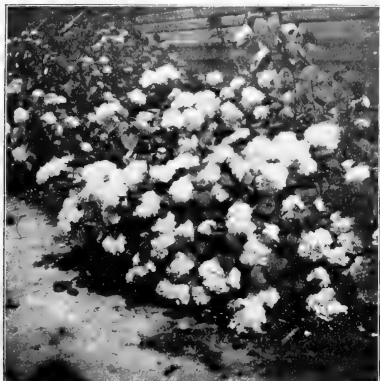
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Hydrangea Thomas Hogg in Washington



The illustration shows a group of Thomas Hogg hydrangeas in the garden of J. R. Freeman, at Washington. Mr. Freeman writes: "These plants have been growing on the north side of my house for at least ten years. I find that in this section they do not do very well unless they are on the north side where the hot sun cannot hurt them. A little back of these I have a bed which we have cut thousands from this summer. It was a great sight when they were in full bloom, the whole plot north of my house being one mass of hydrangeas."

Retarding *Hydrangea paniculata grandiflora*

I send herewith a photograph of *Hydrangea paniculata grandiflora*, taken about Sept. 15, 1905, the blooms having at that date just arrived at condition for cutting. I have for the past four or five years been experimenting with this shrub with a view to prolonging the season of blooming, and the results of my experience may be of sufficient interest to many of your readers to warrant you in publishing them.

I obtained the first practical results in the summer of 1903, when by pinching out the flowers about July 1st to 4th I secured a good crop of very useful bloom up to the end of September, and they were even of clearer white than the flowers from nature's crop had been. During the summer of 1904 I pinched the buds out about the 10th to 15th of July with the expectation of prolonging the season still later, but the shoots absolutely refused to break, and they stood there the balance of the season with their stumpy tops and not a solitary flower was produced. This year, summer of 1905, I waited carefully until I thought the buds were in the

proper condition to be removed and, as I said before, the results were very satisfactory.

From observation I should recommend the buds to be pinched out just as they become plainly evident to the touch and before they are actually visible to the eye. It is to be presumed that location will influence the plant more or less as to the time of producing buds, and consequently the time to remove them; but I fancy that the time will not materially vary as the plant is not one to start into growth until fairly warm weather approaches.

After removing buds far enough back to get all parts of the panicle, but not far enough back to reach even half-ripened wood, I have found the plants break in about two weeks with from one to four shoots. A liberal supply of water should be given after pinching up to the time of blooming, and even a little stimulant should be given so as to make the secondary growth longer and stronger. I notice that after the flower heads are well formed the shoots are liable to break down at the juncture with older wood, and have found a slender tipped cane stake tied to plant lower down and top allowed to project to the lower end of new flowers and each flower tied loosely to the cane to be of great advantage. A yielding support is better than a rigid one, as the latter would produce broken heads as a result of wind storms, etc., on account of the brittle stems.

It is possible in this way to prolong the season here from the middle of July to October 1st at least, and this may be done on the same plants by pinching some of the stronger shoots and allowing others to bloom naturally. Water liberally, meantime.

The plants shown in photograph are near my own house and have had personal attention, and the result



as shown in picture repaid me for the extra trouble expended. I have found these later flowers very useful at my store and I shall still be able to cut some fine blooms for several days yet, up to Oct. 6th or later.

J. R. Freeman

Echoes From England

THE DAHLIA IN ENGLAND.

The dahlia, like most other important flowers, has its own special society here; in fact, there are two societies which devote themselves to its welfare. One is called the National Dahlia Society, and the other is the London Dahlia Union. There is no doubt that these special societies help to popularize the flower in whose interest they exist and encourage its improvement. At the annual exhibition of the London Dahlia Union, held in London a few days ago, no less than one hundred and fifteen varieties of new dahlias were exhibited by various growers before the special committee sitting to award certificates to new meritorious varieties, but, of this large number of flowers sent up, only sixteen gained the first-class certificate, most of these being cactus varieties. The cactus dahlia is in the highest favor now, and has quite replaced the old show and fancy sorts in the public mind. The single varieties still enjoy a large measure of popularity, and deservedly so, for they are very beautiful flowers, valuable in the garden, and perhaps even more so for floral decoration when cut. The pompon dahlias are still great favorites with some, but they are not so largely grown as the cactus and single sorts. For my own part I think they are delightful little flowers. Some of the newer ones are very beautiful and the color shades so pleasing. I will not attempt to give you any dahlia names, for the new varieties seem innumerable. At the last meeting of a joint committee of the National Dahlia Society and the Royal Horticultural Society, seventeen new dahlias were given awards of merit. Including those certificated at the National Dahlia Show some ten days ago, no less than forty-eight new varieties have been honored with one or another of the special awards, a first class certificate, or an award of merit within three weeks.

A NEW RACE OF DAHLIAS.

Quite a distinct race of dahlias was exhibited at the London Dahlia Exhibition last week by Hobbies Limited, Dereham, Norfolk. They are termed *peony-flowered dahlias*, and the appellation is not by any means inapt, for the large semi-double flowers, with bunches of rich yellow stamens showing prominently, remind one a good deal of the herbaceous *peony*. These new dahlias are of Dutch origin, but I believe that Hobbies Limited will distribute them in this country. Both for the garden border and for vase decoration, they ought to prove useful, for the flowers are bold and handsome and supported by strong stems.

AN AUTUMN ROSE SHOW.

The rose has always been looked upon as a summer flower, and poets from time immemorial have sung of June as the month of roses. During the past ten or so years, however, the rose has changed tremendously, and today it is possible to have almost as many roses in September as formerly in June. The old, and perpet-

als (so called) which flower in summer only, have given way to a large extent to the teas and hybrid teas, some of which are more beautiful now than in the height of summer. So much had been said of the value of autumn roses, that last year the National Rose Society inaugurated an autumn show in addition to its summer ones, which are always held early in July. It was not, however, a great success. A second is open in London at present writing. This is a magnificent show, equal in many respects to that held in July. Many of the roses are fresher and brighter, and altogether the exhibition is a most delightful one. The displays of so-called "garden" or decorative roses, a term applied to any very free-flowering varieties which do not produce exhibition blooms, were very fine and one of the features of the show. The National Rose Society awards a gold medal to any new rose shown that may be considered worthy of the honor, and a card of commendation to any new one not thought good enough to receive the gold medal.

NEW ROSES.

Two roses were deemed of sufficient merit for the gold medal, namely, *Irish Elegance* and *Countess of Gosford*. *Irish Elegance* is a beautiful single rose; the buds and half-opened flowers are richly tinted with red and apricot coloring, while the fully open flowers are a soft salmon-pink. This was raised by A. Dickson, Newtownards, Ireland, a firm that has placed many new roses on the market within recent years. *Countess of Gosford* is a hybrid tea rose, with blooms of excellent form, something after the style of Killarney, of a distinct deep salmon-pink color. This was raised by S. McCreedy & Son, Portadown, so that both the gold medal roses were shown by Irish growers. Dorothy Page Roberts is the name of the variety that received the card of commendation. It, too, is a hybrid tea, a large flower with reflexed petal edges; the color is rich rose pink, fading to a lighter shade as the flowers age. This was shown by A. Dickson.

TUBEROUS BEGONIAS.

There is probably no other plant so indispensable to the gardener for the purpose of making a rich and brilliant mass of color in the garden during the summer time as the tuberous begonia. No other plant that I know makes such a wonderful display; when one sees a field of these plants, simply one mass of color, it is indeed a sight to remember, it is as the bulb fields of Holland in spring time. The field of tuberous begonias to which I refer, belongs to T. S. Ware, Ltd., whose chief nurseries are at Feltham. When we saw it the other day, the plants were about at their best. They have been flowering ever since early July and will continue to do so until cut down by frost. Each color is kept separate; the singles are on one side of the path which runs down the centre of the field, the doubles are on the other side. Each color is represented by a large mass of plants, so that looking down the field from one end, the glorious coloring of the begonia farm can be imagined.

Messrs. Ware compute that there are some two hundred thousand plants in this field, and what seems more remarkable is the fact that all were raised from seed sown in January last (1905). The bulbs of these plants will be ready for distribution in the autumn. There are lovely varieties among the tuberous begonias now; some of the flowers are as perfect in form as a rose, camellia or water lily; in fact, there are varieties which are distinguished by such names as water lily, camellia flowered, etc. They are real triumphs of the hybridiser's art; not only the form but the coloring of the newer varieties renders them remarkably beautiful.

A GREAT INTERNATIONAL SHOW.

The Royal Caledonian Horticultural Society held an international exhibition at Edinburgh last week; such a one has not been held there for fourteen years. It proved a great success, the total takings at the door for the three days on which the show was open amounted to £1115. On the second day, when the greatest number passed the gates, 15,000 were admitted, excluding members and those admitted by ticket. A sad incident was the death by drowning a few days before the show opened of Mr. D. P. Laird, of R. B. Laird & Sons, one of the best known firms of nurserymen in Scotland. Mr. Laird was a most popular man and was a member of the Council of the Royal Caledonian Horticultural Society. He was also intimately associated with other important gardening societies and will be greatly missed. The most important new plant exhibited was a rose called *Rosa sericea aux grandes epines*. It was shown by Paul & Son, Cheshunt, for M. de Vilmorin. This rose does not, as the great majority do, rely upon the beauty of its flowers as its chief attraction, but strange to say upon the large, bright spines which cover the stems. The leaves are much divided, the leaflets being quite small. It is said to be a hybrid and not a new variety of *Rosa sericea*, as its name would indicate. The plant grows from 8 to 10 feet high at Les Barres, M. Vilmorin's property in France, and the appearance of its tall, arching stems covered with the red spines is most striking, especially when lit up by the setting sun.

Harry H. Thomas

Hydrangea hortensis

Our frontispiece represents one of a number of specimen hydrangeas used to adorn the beautiful estate of General Lawrence at Medford, Mass., each summer. These plants, which are from fifteen to twenty years old, are protected during the winter in a deep cold-frame after the usual drying off process each September. In March they are started into growth in a cool house and toward the end of May they take up their position on the grounds and their principal requirement—water and occasional stimulant—is carefully attended to during the hot summer months.

Hydrangea hortensis in Newport

For the winter care of *hydrangea hortensis* we find in Bailey's *Cyclopaedia* the following: "They may also be planted in the open ground during the summer, lifted late in the fall with a large ball of earth, stored over winter in a cold frame or pit and planted out again in spring." While the foregoing is certainly a safe method, still we must come to the conclusion that at the time it was written no such specimens of hydrangeas as we have today existed.

Hydrangea hortensis in all sizes is useful and exceedingly ornamental, but when we get specimen plants seven feet high and of proportionate diameter, we then have something gorgeous in the extreme, and it is needless to say that plants attaining the size mentioned are not lifted in the fall but remain permanently out doors. Among the largest hydrangeas in this country are those on the estate of Baroness Selliere at Newport, where for many years they have been admired for their giant proportions, luxuriant growth and profusion of bloom. These plants were grown from cuttings put in in the fall sixteen years ago, and for two years thereafter they were treated just as directed in Bailey's, but since then they have never been disturbed, which demonstrates that hydrangeas will, with some care in covering, stand outdoors all winter. Only in this way can plants of large size be grown to perfection. As isolated specimens few things can equal them for lawn decorations. They are perhaps equally effective in a mass in an appropriate location, but when a place is bordered with them and all inside the border is dotted with them and nothing else, then their beauty is less impressive.

In preparing for winter protection the first thing is to strip the plants of all leaves in time before frost sets in. After being stripped the branches are tied closely together with stout tar twine, running it many times around the entire plant, beginning at the bottom. Then the plants are enclosed in a shelter made of boards, and four corner posts of two by threes. The enclosure is then filled with dry loam and a cover put on with a slight pitch to throw off the water. In this condition they are allowed to remain undisturbed until all danger of frost is over in the spring, when one or two boards are taken off one side and the covering of loam taken carefully out from the bottom. The boards should be left on for a few days thereafter, and even later it may be well to throw some light covering over them at night.

When hydrangeas are planted in large numbers in beds or borders, the best results have been obtained by tying them down close to the ground, then covering them with turf and over the turf putting at least six inches of soil. Following this method they will keep still better if there is provision made for the surface water to run away, by digging at both sides for the soil necessary for covering. The first covering of turf is indispensable to save trouble in getting the soil from among the branches and buds, and avoid breaking more or less of the latter. Where only small or medium sized hydrangeas are planted, and no desire shown for having even these in the same places every year, the old method of lifting and storing them in a cold frame, pit, or cellar, will answer quite well, but to grow them to large specimen plants fully developed, or to have them in beds or borders luxuriant in foliage and flower, they must be allowed to remain undisturbed at the root.

David McIntosh.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

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Telephone, Oxford 292.

WM. J. STEWART, *Editor and Manager.*

Retarding the hydrangea As a garden ornament and as a useful cut flower for decorative purposes indoors, the hardy hydrangea holds an unassailable position. To prolong its period of blooming, as Mr. Freeman claims to have succeeded in doing, by the simple process of "pinching back," is to add materially to our garden attractions and to the resources of the florist. The experiment is one worthy of general attention.

The sportive dahlia Our London letter in this number gives interesting information regarding another new race of dahlias which has been given the name of "pæony flowered." The remarkable advances made in dahlia production during the past few years are very evidently but the beginning of a floral evolution such as has rarely been recorded of any one genus, and we may confidently look for still further exhibitions of friskiness and a breaking out of sensational variations of form and character hitherto unsuspected. It is evident that the possibilities of dahlia development are as yet but dimly surmised.

Fighting the tussock moth The school children of Rochester, N. Y., have been enlisted in the work of combating tussock moth, which has been inflicting fearful damage on the shade and fruit trees of that section. Seven cents per quart is the price paid the children, each quart containing about 400 egg masses. It is estimated that the \$500 appropriated by the park board for this purpose will purchase 2,517,750 egg masses, representing, on an average of 200 eggs to each mass, the enormous number of approximately 500,000,000 caterpillars destroyed at a cost of \$1.00 per million. Where and how can a dollar be spent more profitably?

A boon to catalogue writers Imagine 365 colored plates with four shades of each color illustrated on each plate and the whole accurately described in English, French, German, Italian and Spanish, and you will

have a faint idea of a long-sought boon to the catalogue compilers. The work is published by the *Librarie Horticole*, 84 Rue de Grenelle, Paris, France, and costs, we believe, something like ten dollars per copy. Chevreul, Guichard, Saccardo, Warhurst, and other authorities have been taken as the basis of accuracy in the names and descriptions of the colors. Fourteen hundred different shades accurately named should be a help in getting lists straight and horticultural writers will now have no excuse for guessing at it.

Conflicting exhibition dates Perhaps it cannot be remedied but it is much to be regretted that so many of the great fall exhibitions all over the country are each year crowded into the same dates. The time of maturing of the chrysanthemums which form so essential a feature of all these shows is, of course, the prime consideration in arranging the dates and as the variation in flowering period is not great as between different localities a certain amount of conflict and overlapping is unavoidable. But it occurs to us that some improvement is possible, nevertheless, and that a conference committee representing the various organizations under whose auspices the exhibitions are given might be able to formulate a series of dates that would, in some measure, do away with the inconvenient conditions now existing. It would be necessary for such a committee to meet at least a year in advance of the events under consideration. Certainly the exhibitors of novelties as well as many others whose pleasure or profit is found in attending several of these widely separated shows in the same year would be grateful if any improvement could be made over the present situation.

Exhibition management Surface indications disclose a crystallization of sentiment and effort in the direction of the flower show, outside of the regularly equipped horticultural bodies to which we have heretofore looked for the conduct of such affairs. The charge has often been made that people engaged in commercial floriculture lack appreciation of the great utility of floral exhibitions in promoting their own prosperity. This may be true to some extent, but we incline to the belief that the indifference is largely due to misgivings born of the frequent instances of financial failure with these enterprises when engineered by bodies of florists. The management of flower shows has been a fruitful theme for discussion for many years and repeatedly has the conviction been forced upon us that florists are very poor showmen. To properly advertise an exhibition and push it through to a successful outcome, from the treasurer's point of view, calls for the services of men well versed in the art of coaxing the public to open its pocketbook and thoroughly experienced in the business of the box office. It is, therefore, a very hopeful sign that men with these qualifications are being called in to help make the flower shows the success financially that they are acknowledged to be from a cultural standpoint. Assurance that this will be done and that the public interest is to be aroused will do much to induce co-operation in quarters where the effort to do so has hitherto been fruitless.

OUT OF THE BEAN POD.

At last the bars are down and the wholesale commission dealer is permitted to enter and do business in the flower market in Boston on the same basis as other stall-holders. That the product of growers choosing to employ a commission agent rather than a regularly hired employee to represent them should be debarred from market privileges, has always seemed to us an ill-advised course in which the market itself, purporting to be a distributing centre, was the greatest loser.

Boston's suburbs are especially beautiful these autumn days. Fruit-laden trees, richly tinted foliage, and gardens all abloom with fall flowers, make the landscape fairly entrancing in the soft autumn haze. The picture has only one blemish—the columns of smoke rising here and there from the bonfires where thrifty dwellers are busy "clearing up the rubbish." In their effort to look sleek, they are ruthlessly stripping the winter clothing of fallen leaves which provident Nature has given for protection against the winter cold.

Carnation Fiancee is making a good record for itself with Wm. Nicholson of Framingham. He has one bench of it and it is very fine, and the blooms now being cut have caught the favor of the retail stores in a remarkable manner. In explanation of this rejuvenation of this beautiful but frequently discredited carnation, Mr. Nicholson says that his plants were field-grown, under ordinary conditions, but have been watched carefully and assiduously protected against any neglect or rough usage. After thus growing out of the weakness consequent upon its first propagation it is probable that Fiancee will assume its place in the top rank which from the first it gave promise of filling.

WHOLE SOME CHESTNUTS.

Pile up in a heap sufficient sod of good fibre for potting to last until next summer.

Echeverias will do all right in frames if well covered and kept dry. Pansies do better in frames than anywhere else.

If there is any inside painting to be done go to work without delay. It will not be so easy moving things backwards and forwards after a bit.

Label dahlias while they are in flower. If more geranium cuttings are wanted go ahead, but don't put in soft, long-jointed cuttings; better throw them away.

Don't burn leaves, but heap them up somewhere out of the way. They will not look unsightly after they settle down, and later on they will come in handy as leaf mould.

No matter how small your place may be buy a few bulbs for winter and spring flowering. They are sure to repay the cost and trouble, besides it keeps one's hand in.

Buy one of each variety of nephrolepis and watch their growth and peculiar characteristics. Each is worthy of a place, and all together you will find them interesting subjects for critical observation as well as admiration.

D. M.

THE CHRYSANTHEMUM.

Its Culture for Professional Growers and Amateurs.

Under the above title Arthur Herrington has written a book, and it has been published by the Orange Judd Company, New York. As might be expected from a man who has so distinguished himself as a chrysanthemum grower, Mr. Herrington has given us a most comprehensive, useful and practical handbook which everyone interested in the chrysanthemum will want to have. It contains 168 pages and 32 illustrations, and covers propagation, cultivation, training, raising for exhibition and market, hybridizing, staging, judging, etc., to the smallest details and in clearest manner. The chapter on "Taking the Bud" will be found especially interesting. Price, 50 cents.

NEWS NOTES.

J. C. Bruckner has started in business at 87 Monroe street, Chicago.

Wandland & Co. have purchased the business of the N. R. Swan Floral Co., at Findlay, O.

George O. Morey has opened a retail flower store in Haverhill, Mass., at 203 Washington street.

Herbert Greensmith has taken a position as manager at the Black Hall Nurseries, Black Hall, Conn.

Auctioneer W. J. Elliott is entertaining large audiences every Tuesday and Friday at the new auction rooms, 291 Fulton street, New York. Drop in.

Peter Olinger, the recent partner of Peter Weiland, is now assisting William Gardner in the management of their wholesale house in Cincinnati.

Fred Heeremans, who has had charge of the greenhouses at Elm Court, Lenox, Mass., is to succeed G. W. Philcox as superintendent of the Sloane estate.

The Garden, London, gives a handsome colored picture of rose Lady Gay with its issue of September 20. In the same number appears also an illustration of another American production, the Dawson rose.

PERSONAL.

Dr. Daniel Trembley MacDougal, assistant director of the New York Botanical Garden, has just returned from an extended trip through the region known as The Great American Desert, bringing with him some two hundred species of plants. These will be a valuable accession to the already notable collection of cacti and kindred plants of the Botanical Garden. Dr. MacDougal has personally conducted the garden field work in the arid lands since its inception.

OBITUARY.

Sarah Jane, widow of W. H. Brower, died at Plainfield, N. J., Oct. 9. Funeral services were held at the residence of her son, Lorenzo D. Brower, 123 E. 5th street, New York, on Wednesday.

Two young lads, sons of William Gardner of the Lewis Conservatories at Marlboro, have started in the violet business at Westboro, Mass., with two new houses, each 120 feet in length, and are already shipping violets of good quality to Welch Bros., in Boston.

SEED TRADE.

Marshall & Wheeler, New York City, have purchased the store fixtures of the late Chas. & Boddington Co. and greatly extended their store and are now fully equipped to meet all the big rush.

Boston Grass Seed Report.

Dealers report an amount of business quite in keeping with the conditions usual in early October. Winter rye remains firm at \$16.10. No changes are apparent in the following table:

Choker, West Id.	13 2/3 @ 14c
do, North Id.	14 1/2 @ 15c
do, White Id.	15 1/2 @ 16c
do, Alsike	13 2/3 @ 14c
Alfalfa or Lucerne Id.	17 1/2 @ 18c
West	2 00 @ 2.25
Jersey	3 00 @ 3.25
Clear	7 50 @ 9 1/2
R. L. Reid per bu.	1 50 @ 2.00
R. L. Clear per bu.	2 00 @ 2.25
Hungarian	1 00 @ 1.10
Golden Millet	1 25 @ 1.30
Western	1 25 @ 1.30
Tennessee	1 25 @ 1.30
American	1 50 @ 1.75
Orchard, per bu.	1 50 @ 2.00
Blue grass, bu.	1 00 @ 1.75
Timothy, prime	1 50 @ 2.00
Timothy, extra	1 50 @ 2.00
Am. Daisies, bu.	2 25 @ 2.50
Seed, barley	8 50 @ 1.15
Barley, feed	9 00 @ 1.00
Winter rye	1 00 @ 1.10

Commercial Bulletin.

The Boston Seed Trade Bowling League has commenced its games for the season. The league comprises teams from the establishments of R. & J. Farquhar & Co., Jos. Breck & Sons Corp., W. W. Rawson & Co., Schlegel & Fottler, Music Hall Flower Market and Park Street Flower Market. Contest will take place every Tuesday and Thursday evening. A neat printed list of games has been issued, covering the proposed schedule up to the end of January. We may find room occasionally for the scores made. It should be borne in mind that candle-pins and small balls is the game played in Boston. This will account for the apparently small scores made as compared with the ordinary game with large pins and finger-balls as played in the florists' tournaments elsewhere.

In the regular game on October 5, Schlegel & Fottler whitewashed the Music Hall Market team, Capt. Guernieu being the star performer. The result of the match on October 10 was three straight for Park Street Market over R. & J. Farquhar & Co., and two out of three for Schlegel & Fottler Co.

CLUB AND SOCIETY NOTES.

The report of the proceedings of the third annual meeting of the Chrysanthemum Society of America has been issued. It contains a very complete list of varieties introduced in America during the years 1903, '04 and '05.

The Kentucky Society of Florists held its regular monthly meeting at August R. Baumer's store Tuesday night. The November show was discussed, and preparations are well under way. The hall was visited and proved a very satisfactory one.

The schedule for the fifth annual exhibition of the New Haven County (Conn.) Horticultural Society is out and copies may be had on application to the secretary, Thos. Pettit, 90 Prospect street, New Haven. The exhibition will be held at Music Hall, New Haven, on Nov. 7, 8 and 9. Many liberal special premiums are offered for plant and flower exhibits.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The monthly meeting of the New York Florists' Club last Monday evening was a thriller. Whilst there have been more largely attended meetings in the club's history we doubt much if there was ever a more enthusiastic or sincerely attentive one. There was a grand display of dahlias and early chrysanthemums, to be sure, but the prime attraction was Patrick O'Mara's talk about his recent trip through and to the end of these United States. Mr. O'Mara was at his best and in his own inimitable style described minutely the principal points of interest. He was as usual keenly observant of all that was particularly interesting to horticulture, and paid glowing tributes to the inexhaustible fertility of the great land we live in. The wonders of Yellowstone Park, the glories of Canyon with its wealth of fountains, the grand 15-foot high hedges of fuchsias, abutilons and other greenhouse pets of the north at Monterey and Del Monte, where Mr. Lee, an old eastern gardener, is superintendent, in fact it seemed that every mile of the journey through the land of wonders was photographed in words. It was, however, Mr. O'Mara's description of the workshops of Mr. Luther Burbank and his proper placing of Mr. Burbank in the field of imagination that excited the meeting intensely. As to the positive emptiness of title to superiority in products on Mr. Burbank's own grounds, Mr. O'Mara quoted many irrefutable authorities to prove that with one or two exceptions Mr. Burbank's benefits to horticulture were dreams of the live press agent. He deprecated especially that part which tended to mislead the trade and cautioned his hearers against plant fakism, and, whilst there was some reason in the term "plant breeders" there was none for the title of "plant creators." At the conclusion of his most interesting talk and amid much applause a vote of thanks was accorded the speaker.

Mr. Peacock, the dahlia specialist of Ater, N. J., gave some very valuable information regarding the cultivation of the dahlia and selection of varieties. He was in favor of both early and late planting where succession or quantity was considered. He had planted dahlias on the 1st of May and cut blooms the 1st of August; those planted at that date produced heavier foliage and fewer and smaller flowers. He was of the opinion that about the 1st of June was the best time for planting, as the flowers produced were finer and came in early in September, just before chrysanthemums, this being the dahlias' proper season. Mr. Peacock started the wholesalers present when he said they had 120 acres of dahlias which were a mass of bloom at present, and whilst every dollar brought in by the cut blooms is welcome still their greatest value to introducers and distributors is in the tubers. Mr. Peacock exhibited 150 varieties in seventy-five vases, and they made a grand display. F. R. Pierson Co., Tarrytown, showed 75 varieties of dahlias in all types and colors. A. L. Miller, East New York, made a very fine display of his splendid white dahlia *Camelliflora* and

some well-grown chrysanthemums. Beaulieu, the enthusiastic French horticulturist, showed some good dahlias as did also J. T. Lovett. Class H. Totty showed some elegant chrysanthemums, perhaps the best blooms ever seen here at this season of the year. The complete report of the judges was as follows:

Begonia, improved *Eriodidi*, from Lehning & Winnfield, Hackensack, N. J.; honorable mention.

C. H. Totty, Madison, N. J. New chrysanthemums, Mrs. D. Willis James, crimson scarlet, Lady Henderson, yellow, seedling 99, apricot yellow, seedling 23, yellow with crimson stripe; certificate of merit. Last year's novelties, Mrs. J. A. Miller, Lady Hopetown, Albert Chandler, Beatrice May, White Combes, Souv. de Calvat Pere, Aernstham yellow; cultural certificate.

L. K. Peacock, Inc., Ater, N. J. Collection of dahlias; cultural certificate. F. R. Pierson Co., Tarrytown, N. Y. Collection of dahlias; honorable mention.

Henri Beaulieu, Woodhaven, N. Y. Dahlias; honorable mention. Guttman & Weber, New York City. Carnation Victory.

A. L. Miller, East New York. Dahlias; cultural certificate. J. T. Lovett, Little Silver, N. J. Dahlias; cultural certificate.

Louis Dupuy, Whitestone, L. I. Chrysanthemum *Royonante*; honorable mention.

Wm. Duckham was asked to say a few words on the chrysanthemum. He urged that all interested in floriculture attend or in some way assist the National Chrysanthemum Society to make a success of its annual meeting next month in Philadelphia.

As usual Mr. Nugent had a fatted calf and all necessary trimmings, to which full justice was done during the course of the evening.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next meeting of the club will be held at Horticultural Hall, Boston, on Tuesday evening, Oct. 17, at 7.30 o'clock.

The members of the North Shore Horticultural Society of Manchester, Mass., will be guests of the club.

A lecture on "Park and Garden Work in European Cities," by ex-President J. A. Pettigrew, is promised.

Now that Reports of Merit are ready, interesting exhibits are hoped for at all future meetings. Timely displays are solicited.

It has been decided to form a Glee Club, and all musical members are invited to hand in their names to Frank P. Cannell.

In closing his notice of the meeting, Secretary Craig says: Our September meeting was a good one, cheering in many ways. Let the coming one be the largest and most inspiring we have ever had. Come yourself, jog the memories of forgetful ones, bring a friend with you and be prepared to pass a pleasurable evening.

Let not forget the time and place: Horticultural Hall, Boston, Tuesday evening, Oct. 17, at 7.30 o'clock.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Nominating Committee has presented the following list of nominees for the various offices for 1906:

President, Arthur F. Estabrook; vice-president, Walter Huonewell; treasurer, Charles E. Richardson; secretary, William P. Rich; delegate to State Board of Agriculture, William H. Spooner; trustees (for three years), Oakes Ames, William H. Elliott, James E. Rothwell, Charles F. Curtis; trustee (for two years), John Lawrence; Nominating Committee, James H. Bowditch, Robert Cameron, T. D. Hatfield, Charles W. Parker, William H. Spooner.

MILWAUKEE FLORIST CLUB.

The Milwaukee Florist Club held its regular monthly meeting last Tuesday, October 2, at its club rooms. The principal item of interest now centers in the Fall Flower Show which will be held in the Gimbel Building. The Executive Committee which has charge of arrangements reported very satisfactory progress and quite a few entries from growers. As this is the first show that has been held in this city for almost ten years and as all growers are taking a very lively interest in the same there is no doubt that it will prove a great success. The premiums offered are very liberal and will induce a heavy exhibit. Those in charge of the work are Fred H. Holton, F. P. Dilger, C. C. Pollworth, C. B. Whitnall and Robt. Zepnick.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.

This society held its regular monthly meeting at the Glen Cove greenhouses Wednesday, Oct. 4. President Harrison occupied the chair. The exhibition table was loaded; dahlias were most prominent. The prize offered by A. Rickards for vase of 12 best carnations was carried off by Mr. Trepass of Glen Cove; that offered by W. Rickards, of J. M. Thorburn Co., for best collection of dahlias, was won by Felix Mense. Both classes were well represented.

Two handsome cups and money prizes have been given the society for their first flower show, which is to be held in Glen Cove, Nov. 1 and 2.

John H. Johnston.

HUNTINGTON HORTICULTURAL SOCIETY.

The third annual exhibition of this society was held in the Opera House Oct. 5 and was a success both from points of exhibit and attendance. Palms and ferns from W. O'Hara and August Heckscher, bay trees from Walter Jennings and Mrs. E. A. Sweet, and sunflowers from R. W. DeForest were grouped on the stage. Among the prize winners on plants and cut flowers were James Kirby, H. T. & A. H. Punnell, W. O'Hara, August Heckscher. Vegetables, grains and fruits were attractively displayed and received due attention. The judges were C. L. Allen of Floral Park and E. S. Miller of Wading River.

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CHRYSANTHEMUM SOCIETY OF AMERICA.

Examining Committees.

President Duckham has announced the committees to examine seedlings and sports on dates as follows: October 7, 14, 21 and 28; November 4, 11, 18 and 25, 1905. Exhibits to receive attention from the committees must in all cases be prepaid to destination, and the entry fee of \$2 should be forwarded to the secretary not later than Tuesday of the week preceding examination, or may accompany the blooms. Special attention is called to the rule requiring that sports to receive a certificate must pass three committees.

New York, Eugene Dailedouze, chairman, care of New York Cut Flower Company, Sixth avenue and Twenty-sixth streets; Arthur Herrington, Thomas Head.

Philadelphia, A. B. Cartledge, chairman, 1514 Chestnut street; John Westcott, Wm. K. Harris.

Boston, E. A. Wood, chairman; Wm. Nicholson, James Wheeler. Ship to Boston Flower Market, care John Walsh.

Cincinnati, R. Witterstaetter, chairman; James Allen, William Jackson. Ship to Jabez Elliott, Flower Market, care Janitor.

Chicago, J. S. Wilson, chairman; J. B. Deamund and P. J. Hauswirth. Ship care of J. B. Deamund, 51 Wabash avenue.

Official Judging Scales.

The official scales of the society are as follows:

For Commercial Purposes.

Color	20
Form	15
Fullness	10
Stem	15
Foliage	15
Substance	15
Size	10
Total	100

For Exhibition Purposes.

Color	10
Stem	10
Foliage	10
Fullness	15
Form	15
Depth	15
Size	25
Total	100

Note.—Stem and foliage have been changed from five to ten points each, and size from thirty-five to twenty-five.

THE NEW JERSEY FLORICULTURAL SOCIETY.

The season and the weather were both favorable to the Dahlia Night of the New Jersey Floricultural Society last Friday evening. Thirty-seven exhibitors were represented, twenty-two of whom were entered "not for competition." The competitive display was arranged in three classes. The best 24 in 6 varieties, the best twelve in three varieties, and the best vase of twenty-five in variety. The judges were Arthur Caparn, Malcolm MacRoni and George von Qualen, who awarded prizes as follows: First, President Dietreck Kindsgrab, gardener for William Runkle; second, George von Qualen, gardener for A. B. Jenkins; third, William Read, gardener for the Colgates. Other awards were a first certificate to Peter Duff, gardener for John Crosby Brown, for a large vase of Grand Duke Alexis, and Walter Gray of Maplewood, who staged twelve varieties. J. C. Williams, the nurseryman of Montclair, staged among the following varieties, for which he received a first certificate: Mrs. Charles Turner, yellow; Countess Lonsdale, salmon pink; Mrs. H. J. Jones, variegated; Arachue variegated; Mrs. J. W. Fife, Floradora; Kean's White, Winsome and Mars, a bright scarlet variegated. These were all of the cactus section. Mrs. Roosevelt, pink; Cuban Giant, dark crimson; William Agnew, scarlet, and Sylvia, lightbreak pink, were of the decorative class. Popken & Collins and H. Hornacker displayed good commercial varieties, the first, Henry Patrick, Perle de la Taldore and a vase of single, and the second, Cameliadora, A. D. Lavoni, Hart's Perfection, Grand Duke Alexis and a sport of Hart's Perfection raised by himself.

George Oakley, gardener for T. A. Gillespie, displayed a vase of pyrethrum seedling dahlias and a vase of fine carnations. Vegetables were shown by Douglas Robinson, John Gervan, gardener, and fruits by Charles Hathaway, Max Schneider, gardener, and E. J. Brockett, T. Mayberry, gardener. There were orchids from Julius Roehrs, Henry Graves, Edwin Thomas, gardener, and William Barr, Arthur Bodwell, gardener. The rooms were crowded the entire evening and promised well for the great display to be held at the Berkeley Lyceum in November.

J. B. Davis.

NEWPORT HORTICULTURAL SOCIETY.

The regular fortnightly meeting of this society was held last Wednesday evening. President Sullivan in the

chair. Some time was spent in squaring up the affairs of the recent exhibition, all premiums and bills in connection therewith having been paid. A discussion took place on the merits of various kinds of fertilizers for lawns and crops. In relation thereto Joseph Gibson stated that he had recently visited the experiment station at Kingston and was much impressed with the work carried on there, particularly the interesting results of fertilizer tests on crops.

When their large greenhouse is completed the officials at the station and college hope to make their work in horticultural lines still more interesting. The absence of a proper structure of this kind has greatly hampered the faculty in the past.

At the next meeting of the society a paper will be read on "Landscape Gardening Past and Present." It is proposed to have papers on topics of interest to the craft read and discussed at every meeting.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

Peter Henderson & Co., New York, N. Y., submit for registration Rose Triumph (Gruss an Teplitz x Gen. MacArthur); deep carmine rose with crimson tones. This was raised by the E. G. Hill Co., from whom they purchased the entire stock.

WILLIAM J. STEWART,

Secretary.

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Plumosa Strings \$35.00 per 100

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Oct. 10		Oct. 10		Oct. 3		Oct. 12	
ROSES								
Am. Beauty and Edgely Fan, & Sp.	25.00	to 35.00	25.00	to 35.00	20.00	to 25.00	20.00	to 25.00
Extra.....	18.00	to 20.00	15.00	to 20.00	12.00	to 15.00	10.00	to 16.00
.. No. 1.....	10.00	to 15.00	10.00	to 12.50	8.00	to 10.00	6.00	to 8.00
.. No. 1 and Lower grades.....	2.00	to 8.00	3.00	to 8.00	3.00	to 5.00	2.00	to 4.00
Bride & 'Maid—Fan, & Sp.....	6.00	to 8.00	3.00	to 4.00	4.00	to 5.00	6.00	to 8.00
Extra.....	4.00	to 5.00	.....	to 2.00	3.00	to 4.00	4.00	to 6.00
.. No. 1 and Lower grades.....	1.00	to 4.00	.....	to 1.00	.....	to 3.00	1.00	to 2.00
Liberty, Fancy & Special.....	6.00	to 8.00	3.00	to 4.00	5.00	to 6.00	6.00	to 8.00
Ordinary.....	2.00	to 4.00	.....	to 2.00	2.00	to 3.00	2.00	to 4.00
Carnot and Kaiserin Fancy.....	6.00	to 8.00	.....	to 4.00	6.00	to 8.00	6.00	to 8.00
Ordinary.....	2.00	to 4.00	.....	to 3.00	1.50	to 2.00	1.00	to 2.00
Golden Gate, Chaterain, Fan y.....	4.00	to 5.00	.....	to 3.00	3.00	to 5.00	4.00	to 6.00
Ordinary.....	2.00	to 3.00	.....	to 3.00	1.00	to 2.00	2.00	to 4.00
CARNATIONS								
Fancy Class.....	1.50	to 2.00	2.00	to 2.50	1.50	to 2.00	2.00	to 2.50
General Class and Lower grades.....	.75	to 1.50	1.00	to 1.50	.75	to 1.00	1.00	to 2.00
MISCELLANEOUS								
Canterbury.....	50.00	to 60.00	.....	to 40.00	.....	to 40.00	.....	to 50.00
Lily of the Valley.....	2.00	to 4.00	.....	to 2.00	.....	to 4.00	3.00	to 5.00
Chrysanthemums.....	.....	to 10.00	.....	to 10.00	.....	to 10.00	6.00	to 16.00
Violets.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	.....	to 1.00
Gladst.....	2.00	to 4.00	.....	to 2.00	.....	to 3.00	2.00	to 4.00
Dahlia.....	75	to 1.50	2.00	to 1.00	1.00	to 10.00	1.00	to 2.00
Adiantum Cuneatum.....	.....	to .75	.....	to 1.00	.....	to .75	75	to 1.00
Croweum.....	.....	to 1.00	.....	to 1.00	.....	to 1.00	1.00	to 1.25
Smilax.....	8.00	to 12.00	12.50	to 15.00	10.00	to 15.00	8.00	to 10.00
Asparagus Plumosa, strings.....	15.00	to 35.00	25.00	to 50.00	25.00	to 50.00	15.00	to 30.00
Sprenger, bunches.....	10.00	to 35.00	25.00	to 50.00	35.00	to 75.00	20.00	to 50.00

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WHOLESALE FLORISTS

Phila. Cut Flower Co., 1516-1518
SANSOM ST., PHILA.

Flower Market Reports.

BOSTON Trade is by no means as brilliant as it was last week, owing to the sunny days and the rapidly increasing cut of chrysanthemums, roses and carnations. Demand is lighter than at any time for the past two weeks. The wholesalers have spent most of their time lately in ringing up their customers by telephone and trying to negotiate bargains.

BUFFALO. Ideal weather the past week brought out stock in quick order, especially roses which flooded in faster than could be moved; that is, the ordinary quality. As for the selected stock the demand had not ceased, and some excellent Brides, Bridesmaids, Liberty, Killarney, Chateaufort and Perles are seen. Beauties have been good sellers, but demand now not as great as heretofore. Chrysanthemums coming in, among which Polly Rose, Glory of the Pacific and Bergman have been well represented, and so far have sold on sight. Carnations, especially some good Enchantress, are had; also Finnee, but the latter has not shown up as well as it should; Lawsons have been short, while Flora Hill and Queens were leaders in white. No surplus on carnations so far, and for a few days they were rather scarce in coming in. Violets have shown much improvement, but sales not steady as yet. Lily of the valley holding its own, while lilies move rapidly. Dahlias have been an important factor for the past week and were a great help to a cemetery florist, and so far have been good sellers. Gladioli and asters about gone for season. Asparagus and other green goods plentiful.

CHICAGO The only redeeming feature of a somewhat dull season seems to be an occasional flash of business which leads one to be hopeful for a continued improvement. Beauties seem to be the headliner with the trade, and generally sell at sight. Prices still pretty stiff. Brides and Bridesmaids are not up to their standard, but will certainly improve. Chateaufort and Kaiserin move rapidly, the supply of Kaiserin somewhat shortened, consequently not sufficient to meet the demands. Dahlias have come in such large numbers they are a sight to behold and can be bought for a song. Chrysanthemums are improving steadily, and no doubt will shortly be in their prime; prices at top rate. Violets, both single and double, improve steadily, prices reasonable. Oak leaves are used to a certain

extent, and green goods sufficient to meet all demands.

CINCINNATI For the past week Brides and Bridesmaids have moved slowly as compared with the quantity received. Carnations and Asters remain a little scarce. American Beauties continue to arrive in numbers sufficient to fill orders. Some chrysanthemums and violets are now to be seen and meet a ready sale. Dahlias are making their appearance in good quantities.

LOUISVILLE Business conditions the past week were very good, a large demand being realized owing to the local horse show. Carnations and roses are satisfactory in quality, with the supply equal to the demand. Cosmos and dahlias of good quality have had an unusually brisk sale.

NEW YORK The volume of business gradually increases, but the supply more than keeps pace with it. Quotations on all grades and varieties of flowers change from day to day, reflecting the unsteadiness of the demand. The supply of chrysanthemums is growing and there is a great difference between the highest and lowest prices for them; \$4 per doz. represents about the best price, and from that the range is down to \$5 per hundred for very fair stock. The windows of the Broadway stores show that orchids are cheap enough to make them the main feature of the daily exhibit. All the seasonal varieties are plentiful and for its beauty there is nothing so proportionately cheap as the orchid at the present time. There is no scarcity of good Beauties, and they sell best of all the roses and maintain a steadier price. Brides and Bridesmaids are plentiful enough and the quality averages fair. The better grades of Richmond, Killarney, Carnot and Kaiserin find buyers at fair prices. Receipts of carnations are swelling and lower prices prevail, particularly for inferior grades, which are difficult to move at all. How to average anything near the figures of last year for violets is a problem that is made difficult by the largely increased cut of this season. The warm weather of the past ten days has not improved the quality, but the blooms are coming so much faster. Harrisii are more plentiful. Lily of the valley is only in moderate demand with prices unchanged. The market is well supplied with smilax, asparagus and fern, which are cheap.

PHILADELPHIA Trade conditions pretty fair for a warm week. Good demand, but quantity more than equal.

Roses are good and are gradually growing out of mildew. Chrysanthemums are coming in more freely, the best being Polly Rose, Glory of Pacific and Monrovia. Carnations more plentiful, and much better quality. Dahlias are so good and plentiful that the chrysanthemums and rose men are beginning to say a few "cuss words." Orchids plentiful and demand unusually good for the season. Gardenias moving much better. The most notable novelty of the week is the new rose Richmond. Fine color, but not extra as to stem yet.

SAN FRANCISCO October and the Jewish New Year festivities came to the relief of the cut flower and plant dealers, for September business was not first class. But engagements, receptions and announcements signify a good harvest of Cupid's summer efforts, and approaching club meetings are opening October business favorably. Yellow chrysanthemums are everywhere, and whites are coming in, the choicest going to the consumer at good figures. All that are needed of good violets are at hand, and wholesale at \$1 per dozen bushes. Carnations are excellent. Hannah Hobart and Mrs. Lawson retail at highest prices. Said one of the foremost retailers this week: "We are hearing these days a great deal about the Japanese ruining the business by underselling. I don't see it; they are coming around every morning with fine carnations, asking 50c. a dozen, and the Portuguese and Italian growers with the same quality of goods, are offering them at 35c."

ST. PAUL AND MINNEAPOLIS Business in the Twin Cities is opening up with good prospects and every indication for a successful winter. Roses are abundant and good. Carnations are improving. Asters are about gone, but dahlias hold their own. Violets are coming in a little light and chrysanthemums will be in the market in about a week.

Two new stores have been opened in Minneapolis, Minn. Herman Hochstetter, formerly with Rice Bros., wholesale florists, has started into business in North Minneapolis. T. E. Waters, formerly of Boston, Mass., and lately manager of the floral department at the Glass Block, has opened a place of his own on South Fourth street.

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Roses			Carnations		
Am. Beauty, fan and sp.....	12.00 to 25.00	15.00 to 22.00	Fancy Class.....	2.00 to 3.00	1.50 to 3.00
" extra.....	8.00 to 12.00	11.00 to 15.00	General Class and Lower grades..	.75 to 1.00	.75 to 1.00
" No. 1.....	4.00 to 5.00	5.00 to 8.00	Cattleyas.....	20.00 to 40.00	20.00 to 30.00
" Lower grades.....	1.00 to 3.00	1.00 to 3.00	Lily of the Valley.....	1.00 to 2.00	1.00 to 3.00
Bride & Maid, fan and sp.....	3.00 to 5.00	4.00 to 6.00	Asters.....	.50 to 2.00	.50 to 1.00
" extra.....	2.00 to 4.00	2.00 to 3.00	Cladioli.....	.50 to 1.00	.50 to 1.00
" No. 1 and lower grades.....	1.50 to 1.00	.50 to 1.00	Lilies.....	6.00 to 16.00	6.00 to 10.00
Liberty, fan, and sp.....	8.00 to 10.00	10.00 to 12.00	Violets.....	.20 to .50	.20 to .50
" Ordinary.....	1.00 to 4.00	1.00 to 4.00	Dahlias.....	.50 to 1.00	.25 to 2.00
Carnot and Kaiserin, fancy.....	1.00 to 5.00	4.00 to 6.00	Adiantum.....	.25 to .50	.25 to .50
" Ordinary.....	.35 to 1.00	.50 to 2.00	" Croweatum.....	1.00 to 1.50	.50 to .75
Golden Gate, Chateaux, fancy.....	3.00 to 5.00	4.00 to 6.00	Smilax.....	6.00 to 10.00	8.00 to 10.00
" Ordinary.....	.35 to 1.00	.50 to 2.00	Asparagus Plumosus, string.....	15.00 to 25.00	2.00 to 15.00
			" Sprengeri, bunches.....	10.00 to 15.00	5.00 to 10.00

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1463 Madison Sq.

New York

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51 West 28th St., New York

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Best Beauties, Bride and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Outrage
Golden Gate, Chateaux, fancy
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Furnish best stock at fair prices all the year round. Send for quotations on fall orders.

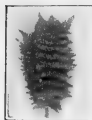
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Carnations and Violets. Quick returns and
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Everything in Season.

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IN WRITING TO ADVERTISERS

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Headquarters in Western New York for

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\$3.50 and 7.00 per Case

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Designs. Cut Wire, Letters, Immortelles, Cypas Leaves,
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LAUREL FESTOONING, 5c and 6c per yard.

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WHOLESALE FLOWER MARKETS.

TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI (Oct. 10)	BALTIMORE (Oct. 9)	BUFFALO (Oct. 10)	PITTSBURG (Oct. 10)
ROSES				
Am. Beauty, fan, and sp.	18.00	20.00	20.00	25.00
" extra.....	12.50	15.00	12.50	15.00
" No. 1.....	12.50	15.00	8.00	10.00
" Lower grades.....	6.00	7.00	4.00	5.00
Bride and Maid, fan, and sp.	10.00	10.00	10.00	10.00
" extra.....	3.00	4.00	3.00	4.00
Liberty, fan, and sp.	1.00	1.50	2.00	2.00
" No 1 and Lower gr.	1.00	1.00	1.00	1.00
Ordinary.....	1.00	1.00	1.00	1.00
Carnot and Kaiser, Fancy.....	1.00	1.00	1.00	1.00
Ordinary.....	1.00	1.00	1.00	1.00
Golden Gate, Chateaux, Fancy.....	1.00	1.00	1.00	1.00
Ordinary.....	1.00	1.00	1.00	1.00
CARNATIONS				
General Class.....	1.00	1.50	1.00	1.75
MISCELLANEOUS				
Cattleyas.....	10.00	10.00	10.00	10.00
Lily of the Valley.....	10.00	10.00	10.00	10.00
Asters.....	2.00	1.50	1.00	2.00
Vi. lers.....	10.00	10.00	10.00	10.00
Gladioli.....	10.00	10.00	10.00	10.00
Dahlias.....	10.00	10.00	10.00	10.00
Lilies.....	10.00	10.00	10.00	10.00
Adiantum, Lunatic.....	10.00	10.00	10.00	10.00
" Crownatum.....	10.00	10.00	10.00	10.00
Smilax.....	10.00	10.00	10.00	10.00
Asparagus, Plumosa, str. 50.....	10.00	10.00	10.00	10.00
Sprengeri, bunches.....	25.00	25.00	25.00	25.00

Geo. A. Sutherland Co.

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Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

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Florists

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41 W. 28th Street, New York

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516 Fifth Ave., New York City

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Cor. MIAMI and GRATIOT AVES.
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OLIVE STREET ST. LOUIS, MO.
Es: abli hed 1873
Long Distance Phone Bell Lindell 676

PHILADELPHIA FACTS AND FANCIES.

Philip Freund of the H. F. Michell Seed Store has been receiving congratulations on their unique window display of bulbs. Mr. Freund has done



some fine work in the past at flower shows, etc., and his present effort is one of the best he has ever done. The photographs reproduced in this issue represent (1) an oriental home, show-



ing the various methods of growing the Chinese ne cissus and (2) an autumn scene embellishing the display of bulbs for fall planting.

It is rumored that the Leo Nissen Company have purchased the properties 1222 and 1224 Filbert street, opposite the Windsor Hotel. This location with a modern building erected thereon would make a fine central flower market. Their lease on the Arch street stores does not expire until March, 1906.

The properties 1608 and 1610 Ludlow street, recently purchased by S. S. Penneck for an extension to his flower market are wanted by a syndicate.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
84 Hawley Street, BOSTON, MASS.

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to Order Your

Christmas Goods

SEND FOR OUR CATALOG.

H. BAYERSDORFER & CO.

The Florists' Supply House of America.

56 North 4th Street, - - PHILA.

WILLIAM J. BOAS & CO. MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples

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122 West 25th St., New York

Florists' Supplies

We manufacture all our
Metal Designs, Baskets, Wire Work & Novelties

and are dealers in
Glassware, Decorative Greens and Florists' Requisites.

DON'T YOU KNOW WE HAVE THE PRETTIEST BASKETS IN THE MARKET!

Buy your supplies from the enterprising florist supply house.

J. STERN & CO.

1928 GERMANTOWN AVENUE, PHILADELPHIA.

Catalogue Free for Postal.

They have already offered Mr. Penneck a bonus of two thousand dollars to give up his bargain, but that gentleman says it will take a great deal more than that amount to make him let go.

Horticulture had a boom in the wholesale district here last Saturday. That squib on the Phila.-Boston champion fisherman touched the spot and made extra copies go at a premium. S. S. P. says he didn't expect anything better from P. W., and suspects that the said esteemed descendant of Kings probably caught that salmon with a piece of green smilax string or hit it on the head with the blarney stone.

The carnation is doomed to be the subject of many cutting remarks.

Palms, Ferns

And Decorative Plants

A Fine Lot of AZALEAS in Great Variety

A Large Assortment of Ferns for Jardinieres

Also, Aracarias, Rubbers, Pandanus, Aralias, Dracaenas, Aspidistras, Marantas, Crocus etc., etc.

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It is never too early nor too late to order the

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Best Commercial Introduction for many years

JOHN SCOTT

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NEPHROLEPIS BARROWSII, \$25 PER 100

SCOTTII, 2 1/2 in., . . . 5 " "

BOSTONS, 2 1/2 in., . . . 3 " "

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Ten varieties. Fine, well grown stock, suitable for immediate use.

\$3.00 per 100; \$25.00 per 1000.

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Write for prices

ORCHIDS, PALMS BAY TREES, ETC.

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Largest Importers, Exporters, Growers and Hybridists in the World

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ORCHIDS

Just arrived in superb condition CATTLEYA GIGAS (from Hardyana Region). A limited number still left of CATTLEYA SCHROEDERAE, C. labiata & C. grandis. Write for prices.

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Cacti — Orchids

Messrs. George & M. J. Hochdoffer of Flagstaff, Arizona, begin in December a trip to the Arizona, Texas, New Mexico and Old Mexico, collecting plants and seeds.

Those desiring cacti, orchids, resurrection plants, ornithine, Acacia collected, kindly send no price list.

Dreer Special Offer of Seasonable Stock

Araucaria Excelsa

6 in. pots.	12 to 14 in. high.	3 to 4 tiers.	\$.75 each.
6 "	15 to 18 "	4 "	1.00 "
7 "	18 to 20 "	4 "	1.25 "
7 "	24 to 30 "	5 "	1.50 "

The above are the best values we have ever sent out, especially the size at \$1.50 each.

Araucaria Excelsa Clauca

6 in. pots.	13 to 15 in. high.	3 tiers.	\$1.25 each.
6 "	18 to 20 "	4 "	1.75 "
7 "	20 to 24 "	4 to 5 "	2.00 "

Araucaria Robusta Compacta

6 in. pots.	10 to 12 in. high.	2 to 3 tiers.	\$1.25 each.
6 "	12 to 14 "	3 "	1.50 "
7 "	15 to 18 "	3 to 4 "	2.00 "

Asparagus Sprengeri

2 1/4 in. pots.	\$.50 per doz.	\$4.00 per 100.
8 "	pans.	6.00 "

Asparagus Plumosus Nanus

2 1/4 in. pots.	.60 "	4.00 "
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Asparagus Tenuissimus

3 "	.75 "	6.00 "
4 "	1.25 "	10.00 "

Begonia Cloire de Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Begonia Light Pink Lorraine

3 "	2.00 "	15.00 "
4 "	4.50 "	35.00 "

Chrysanthemum Alexandra

The New Paris Daisy

3 "	1.25 "	10.00 "
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Dracana Massangeana

5 in. pots.	\$9.00
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" Lindenl

5 "	9.00
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" Terminalis

2 1/4 "	1.00	\$8.00
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Ficus Elastica

6 "	6.00	50.00
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Nephrolepis Scottii

2 1/4 "	.75	6.00
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" "

3 "	1.50	10.00
-----	------	-------

" "

4 "	3.50	25.00
-----	------	-------

" "

5 "	6.00	50.00
-----	------	-------

" "

6 "	9.00	75.00
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" "

8 "	15.00	
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" "

10 "	18.00	
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" Barrowsii

3 "	.75	25.00
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2 1/4 "	3.50	5.00
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" "

2 1/4 "	3.00	25.00
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" Elegantissima

Adiantum Cuneatum

2 1/4 "	\$3.00	\$25.00
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" "

3 "	6.00	50.00
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Alsophilla Australis

2 1/4 "	8.00	
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" "

3 "	10.00	
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Ferns in mixture for dishes

2 1/4 "	3.00	25.00
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" "

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Pandanus Veitchii, fine plants

6 "	Per Doz.	Per 1000.
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New Imported Stock, Fresh, Dark Green, Excellent Values

Standard or Tree-Shaped

Pyramidal-Shape d.

Height of Stems Diameter of Crowns Each

42 to 45 " . . . 24 to 26 in. . . . \$6.00

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42 to 45 " . . . 40 to 42 " . . . 15.00

42 to 45 " . . . 44 to 46 " . . . 20.00

42 to 45 " . . . 48 to 50 " . . . 25.00

42 to 45 " . . . 54 to 56 " . . . 30.00

42 to 45 " . . . 60 to 62 " . . . 35.00

42 to 45 " . . . 66 to 68 " . . . 40.00

42 to 45 " . . . 72 to 74 " . . . 45.00

42 to 45 " . . . 78 to 80 " . . . 50.00

42 to 45 " . . . 84 to 86 " . . . 55.00

42 to 45 " . . . 90 to 92 " . . . 60.00

42 to 45 " . . . 96 to 98 " . . . 65.00

42 to 45 " . . . 102 to 104 " . . . 70.00

42 to 45 " . . . 108 to 110 " . . . 75.00

Dwarf Standard Bay Tree

This is something comparatively new that will meet with a ready sale; these are very dwarf, stems being but 18 to 24 inches high with crowns 24 to 26 inches in diameter, \$6.00 each.

Imperial Standard Bays

Another entirely new form; these are really pyramids, grown on a stem like an ordinary standard, the stems are about 42 inches high, the pyramidal crown is 4 feet high and from 34 to 36 inches in diameter at base, \$15.00 each.

For a complete list of Seasonable Stock, including Ferns, Palms, Decorative Plants, Hardy Perennials, Hardy Shrubs, Bulbs, Seeds, etc., see our New Wholesale Price List issued September 1st.

HENRY A. DREER

714 Chestnut Street, Philadelphia, Pa.

List of Advertisers

Page	Page
Ammann Chas. 357	McCarthy N. F. & Co. 401
Anderson Wm. H. 357	McConnell Alex. 402
Aschmann G. 401	McKellar Charles W. 398
Baker Wm. J. 395	McKissack W. E. 398
Barrows H. H. & Son. 403	McManus Jas. 400
Bayersdorfer H. & Co. 402	Metropolitan Material Co. 407
Black, Chas. 395	Michell H. F. 390
Boak W. J. & Co. 404	Michigan Cut Flower Exchange 401
Boudinard A. T. 390	Millang Charles 401
Boston Florist Letter Co. 401	Mitang Frank 400
Bre & Joseph & Sons 402	Monger J. 407
Breitmeier's J. Sons 402	Mt. Hassarik Nursery 398
Budling J. A. 395	Murdoch J. B. 401
Burnham Hitchings Person Co. 404	Niessen Leo. 398
Burpee W. A. & Co. 390	Peacock L. K. 388
Chicago House Wrecking Co. 407	Pennock Samuel S. 398
Chicago Carnation Co. 387	Perkins John J. 401
Cooke G. H. 402	Phila. Cut Flower Co. 399
Cottage Floral Co. 388	Pierce F. O. Co. 406
Cottage Gardens. 387	Pierston F. R. Co. 387
Dalmer Wm. 401	Pittsburg Cut Flower Co. 401
Donohoe W. H. 402	Pye R. C. 387
Dreher H. A. 403	Rawson W. W. & Co. 390
Dunham & Co. 399	Raynor John L. 400
Dysart R. J. 402	Reed & Keller. 402
Ellott Wm. & Son. 387	Red Fdw. 395
Ester J. C. 406	Reimberg Peter 388
Ernest W. H. 406	Robinson H. M. & Co. 401
Farquhar R. & J. & Co. 399	Roeths Julius. 403
Fletcher F. W. 388	Rolker August & Son. 388
Ford Bros. 409	Sander & Son. 403
Foster Nursery & Seed Co. 388	Schaaf M. J. 387
Frowse W. & Sons. 388	Schillo Limb. Co. 407
Ghemley W. 400	Schlegel & Fottler Co. 397
Grey T. J. & Co. 399	Se. Ray John A. 407
Gude A. & Bro. 402	Scott John. 403
Gurney Heater Mfg. Co. 407	Sharp Partridge & Co. 401
Gutman Alex. J. 401	Sheridan W. 399
Hall Asso. 406	Sievers J. H. & Co. 387
Hammond J. A. 401	Siggers E. G. 406
Hammond Paint & Glug Shot Works. 390	Situations & Wants. 406
Heiler & Co. 406	Skidelsky S. S. 403
Hews A. & Co. 406	Stern J. & Co. 402
Hochdeffer G. & M. J. 403	Stevens A. T. Lumber Co. 406
Hollis Geo. 387	Stevens H. A. 387
Holly Castle Co. 407	Sutherland Geo. A. 401
Horan E. C. 402	Suzuki & Iida. 388
Hub Eng. Co. 406	Thompson J. D. Co. 387
Hudson River Day Line. 407	Thorburn J. M. & Co. 390
Hunt E. H. 398	Treadwell & Schenck. 406
Igoe Bros. 397	Troy J. H. 388
Kastine W. F. 401	Vaughan and Sperry. 398
Kentucky Tobacco Product Co. 408	Walsh M. H. 388
Kervan Co., The. 401	Watson G. C. 388
King Cons. Co. 407	Weber H. & Sons. 387
Kleiner A. 405	Weber Bros. 397
Koral Mfg. Co. 407	Weid & Rosend. 406
Lager & Hurrell. 403	Wietor Bros. 398
Leahy A. & Co. 403	Wild Gilbert H. 388
	Winters E. F. 388
	Young John. 400
	Young & Nugent. 401
	Young Thos., Jr. 402

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For page see List of Advertisers.

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Thos. J. Gray & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARAUCARIAS.

H. A. Dreer, 714 Chestnut St., Philadelphia, Pa.
For page see List of Advertisers.

ASPARAGUS SEEDLINGS.

H. A. Dreer, 714 Chestnut St., Philadelphia.
Sprunger and Plumous Haus.
For page see List of Advertisers.

ASTERS.

Waughs, Amherst, Mass.
For page see List of Advertisers.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BAY TREES.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
Bernuda Harrisli Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.

French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Bermuda Grown Harrisli and Freesias.

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1018 Market St., Philadelphia, Pa.
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De Rijs Bros., Hillegom-Holland.

N. & J. Farquhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.
Schlegel & Fottler Co., Boston.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers

Warburton, Fall River, Mass.
Field Grown.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.

J. L. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 225 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Deffance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
Giant Dahlia Brooms.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

DRACAENAS.

H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

FERNS.

A. Lenth & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Waltham, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

Anderson & Williams, Waltham, Mass.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Soil Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Koral Mfg. Co., 25 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnel, New York.
For page see List of Advertisers.

Fred C. Weber, 4226-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.
W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.
George H. Cooke, Washington, D. C.
For page see List of Advertisers.
A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.
A. H. Hewes & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.
Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GARDENIAS.

Charles Ammann, Yonkers, N. Y.
For page see List of Advertisers.
Geraniums, Cuttings wanted.
J. A. Keeney, Monongahela, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
A. T. Stearns Lumber Co., Neposist, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
For page see List of Advertisers.

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Burnham Hitchings Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

Edmund Reardon, 38 Henry St.,
Cambridgeport, Mass.
Second-hand Boiler.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

A. T. Boddington, 342 W. 14th St.,
New York.

NURSERY STOCK.

Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.
Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

PAEONIES.

George Hollis, S. Weymouth, Mass.
For page see List of Advertisers.
Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PANSY SEEDLINGS.

J. Condon, 734 Fifth Ave., Brooklyn, N. Y.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not, Geraniums.
For page see List of Advertisers.
Cottage Floral Co., Cleveland, O.
Rooted Cuttings Ageratum, Coleus, Heliotrope, Geranium.
For page see List of Advertisers.

PLANTS FOR JARDINIERS.

Charles Ammann, Yonkers, N. Y.
Ivy, Euonymus, Aucuba.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roseland, Mass.
For page see List of Advertisers.
Julius Kochs, Rutherford, N. J.
For page see List of Advertisers.
H. A. Dreer, 714 Chestnut St., Philadelphia.
For page see List of Advertisers.

PLANTS, HARDY.

H. A. Stevens, J. Weston, Mass.
Peonies and Philo.
For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.
Thomas Young, Jr., New York.
For page see List of Advertisers.
W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses & T. Roses and Ramblers.
August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.
For page see List of Advertisers.

Beul, Boirance, Dorchester, Pa.
Kilmarney and Richmond.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 72 and 13 Faneuil
Hall Sq., Boston.
Cyclamen Seed.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.
G. C. Watson, 1611 Ludlow St.,
Philadelphia.
Sweet Pot. Christmas.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1793. High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson, 808 S. 11th Province
St., Boston.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitchings Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.
John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

VIOLETS.

R. Kilbourn, Clinton, N. Y.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.
Buffalo.
For page see List of Advertisers.

Wm. F. Kastig, 383-87 Elliott St., Buf-
falo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budlong, 37 Randolph St., Chicago.
E. H. Hunt, 70-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Weiland & Kisch, 50 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Winterson Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Av.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New
York.
Ford Bros., 48 West 28th St., New York.
Wm. Ghormley, 50 West 28th St., New York.
Alex. J. Guttmann, 43 West 28th St.
Jas. A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 W. 29th St., New York.
Frank Millang, 55-57 W. 26th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.
Trendly & Schenck, 44 W. 28th St., New
York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

Dunmont & Co., Philadelphia.
W. E. McKissick, 1014 Filbert St., Phila-
delphia, Pa.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. R. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

CACTI, ORCHIDS.

Geo. & M. J. Hutchinson, Flagstaff, Ariz.
For page see List of Advertisers.

CARNATIONS.

M. J. Shaff, Danville, N. Y.
For page see List of Advertisers.

CYCLAMEN SEEDS.

H. F. Mitchell Co., Philadelphia.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

J. Stern & Co., 1928 Germantown Ave.,
Philadelphia

HEATING APPARATUS.

Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.

HUDSON RIVER DAY LINE.

F. K. Hubbard, Gen. Pass. Agt.,
Deborahs St. Pier, N. Y.
For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., New York, N. Y.
For page see List of Advertisers.

NICO-FUME.

Kentucky Tobacco Product Co.,
Louisville, Ky.
For page see List of Advertisers.

PAEONIES, DEWBERRIES AND RASPBERRIES.

Gilbert H. Wild, Saroside, Mo.
For page see List of Advertisers.

TEXAS MISTLETOE.

Wm. H. Anderson, Brownwood, Texas.
For page see List of Advertisers.

GREENHOUSES BUILDING OR PROJECTED.

Albany, N. Y.—H. G. Eyre & Co.,
one house.

Belmont, N. H.—Mrs. B. Chaplain,
one house.

Lisbon Falls, Me.—H. W. Blethen,
one house.

Enosburg Falls, Me.—J. H. Mears,
one house, 20x60.

Cleveland, O.—Adam Graham & Son,
range of houses.

Elsmere, N. Y.—Edw. Sexton, carnation
house, 18x100.

North Stoughton, Mass.—Mrs. Arthur
Jewett, one house.

The Wm. Donaldson Co.'s green-
houses in Minneapolis are being en-
larged and when finished will contain
about 60,000 square feet of glass. The
Minneapolis Floral Co. are also enlarg-
ing, and when completed the entire
place will be under about 175,000
square feet of glass.

LIST OF PATENTS.

Issued October 3, 1905.

800,746. Plant-Protector. Charles Lan-
don, Yuma, Ariz.

801,122. Lawn-Mower Attachment.
James West, Seattle, Wash.

800,700. Stump-Puller. Charles A.
Whipple, Elk River, Minn.

FOR SALE OR TO LET.

On account of health and pressure of out-
side business, a thriving Boston's business in-
dustrial estate, consisting of 2000 inhabitants,
5000 square feet floor space, containing 3
greenhouses and 80 sash, 1 in good order and
stocked with Cereus, Violets, Cyclamen and
Chrysanthemums and for drying plants. No
competition. Located in one of the best of
land on health road, 5000 sq. ft. close
out everything. Inquire at R. & J. Farqu-
har's, 6 and 7 South Market Street or Geo.
Sutherland's, 24 Bowdoin Street, Boston,
Mass.

WANTS.

MR. WALTER KENNEDY, Floral Ex-
pert, wide experience of Australia and
Southern Hemisphere generally, will short-
ly arrive, and will be glad to receive offers
of engagement in first-class Floral Store.
Address Expert, care Horticulture, 11 Ham-
ilton Place, Boston, Mass.

SITUATION IN RETAIL STORE—Lady
wishes situation, preferably in eastern city.
Good experience and competent to take
charge of floral department. Character and
ability fully vouched for by past employ-
ers. Address Business, care HORTICUL-
TURE, 11 Hamilton Place, Boston.

SITUATION WANTED—As assistant on
private place where orchids, palms and
roses are grown. Single, 28. Practical ex-
perience in general stock. Address E. L.
CULTURE, 11 Hamilton Place, Boston.

SITUATION WANTED—Long experience
in out-door gardening and thorough knowl-
edge of laying out large estates and general
landscape work. Address, K. R., care HORTICUL-
TURE, 11 Hamilton Place, Boston.

WANTED—A competent palm grower.
Only one who has had ample experience
and who is an up-to-date man need apply
for a permanent position. Address, Palm
Grower, care Horticulture, 11 Hamilton
Place, Boston.

WANTED—Salesman; bright, active man,
thoroughly competent, for ribbons, supplies
and cut flowers. Apply with full particu-
lars as to salary wanted, experience, refer-
ences, to S. S. Pennock, 1612 16th Ludlow
Street, Philadelphia.

CYPRESS SASH BARS 32 feet or longer HOT BED SASH PECKY CYPRESS BENCH LUMBER GREENHOUSES ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

..MASTICA..

FOR GLAZING GREENHOUSES

SOLE MANUFACTURERS

F. O. PIERCE COMPANY
NEW YORK

What the Trade says about the
Peerless Glass Repair Clamp.

"Your PEERLESS GLASS REPAIR CLAMP
is something that is really always needed around a
greenhouse. It is so handy and reliable that a florist
can not do without it."

THE PEERLESS GLASS CO.,
Shippensburg, Pa.

For a sample address A. KLOKNER,
Wauwatosa, Wis.

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE

BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.

DO IT NOW.

Send me for Estimates for Designing and
Heating Green Houses.

WALTER THOMPSON, HEATING ENGINEER, 2195 BOULEVARD, JERSEY CITY, N. J.



Standard Flower.. POTS

If your greenhouses are within 500 miles of
the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

PATENTS

CAVEATS, TRADE MARKS,
COPYRIGHTS AND DESIGNS.

Send your business direct to Wash.ington,
saves time, costs less, better service.
My office close to U. S. Patent Office. FREE prelimi-
nary examinations made. Atty's fee not due until patent
is secured. PERSONAL ATTENTION GIVEN—10 YEARS
ACTUAL EXPERIENCE. Book "How to obtain Patents,"
etc., sent free. Patents procured through E. G. Siggers
receive special notice, without charge, in the
INVENTIVE AGE
Illustrated monthly—Eleventh year—Terms, \$1. a year.
E. G. SIGGERS, 918 F St., N. W.,
WASHINGTON, D. C.

ILLUSTRATIONS

BY THE

Hub Engraving Co.

173 SUMMER ST., BOSTON.

Illustrators and Designers

**Holds Glass
Firmly**
See the Point
PEERLESS

Glazing Points are the best.
No rattle or rattle. Box of
1,000 points 75 cts. postpaid.
HENRY A. DREER,

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting
especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST.,

Telephone, Main 58

BOSTON

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special "PECKY CYPRESS"

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weid St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

Koral

SCRIPT LETTERS

3 1-2c Each

This Company has in stock at all times, or can make to order at short notice, all the Script words in English or German Text, Society Emblems, etc.

Koral Manufacturing Co.

26 Hawley Street, Boston, Mass.

THE HOLLY CASTLE

Electric Circulator

THE SENSATION OF THE S. A. F. EXHIBITION

Insures independent hot water circulation. Can be attached to any system of piping at slight expense

The greatest boon in many years for the greenhouse man

Send for Descriptive Circular

HOLLY CASTLE CO., Engineers, 49 FEDERAL ST., BOSTON.

GLASS

FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,

BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Catalogue

Ask for our Special Catalogue No. 551 describing Boiler Tubes, Boilers, Pipes, Sash, Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts, CHICAGO

CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL

JOHN C. MONINGER & CO. 412 to 422 HAWTHORNE AV. CHICAGO.

OF EVERY DESCRIPTION

In writing advertisers, mention Horticulture

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER

GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE, 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

The Hudson In Autumn

The Hudson, clothed in Autumn colors, is something no one can afford to miss. Those who have seen it only in Summer garb can have little idea of its marvelous beauty decked in the regal tints of Autumn, and perfectly reflected as in a great mirror.

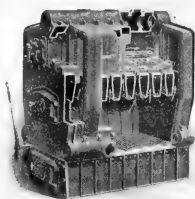
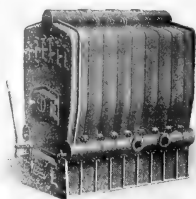
The glorious Fall weather can be fully enjoyed on the Day Line Steamers. The boats are steam heated when necessary, have excellent orchestras, superior restaurants, and every attention is given to the comfort and convenience of passengers. Many will take advantage of the 6 best initial October days to make the excursion from New York to West Point, Newburg, or Poughkeepsie, returning by dawn boat, while from Albany one can go to Hudson, Poughkeepsie or Kingston and return the same day.

The last trips of the Season of 1905 will be made by the Steamers of this Line

From NEW YORK, SATURDAY, October 21.

From ALBANY, MONDAY, October 23.

F. B. HIBBARD, General Passenger Agent,
DESBROSSES ST. PIER, NEW YORK.



Traveling In the Right Direction.

The way the fire travels in the boiler has a lot to do with the coal bin. The percentage of heat that goes up your chimney is that much less into your houses. The longest possible distance between two points—the (fire and the smoke flue) in fire travel, is what makes the Burnham Sectional Boiler the boiler it is for greenhouses.

Three times the length of the boiler, passing around water ways so constructed as to give the water circulation a minimum of friction; then up chimney after pretty much all the heat is harnessed. The longest way around, (consistent with draft) then, is the shortest way to coal economy—when it's fire travel.

A lot of other economies in the Burnham, told in catalog J.-B.

BURNHAM-HITCHINGS-PIERSON COMPANY,

Greenhouse Manufacturers and Builders.

1133 BROADWAY COR. 26th STREET, NEW YORK.

BOSTON BRANCH, 819 TREMONT BUILDING

**TOBACCO-
PAPER**

TOBACCO-PAPER

positively the
Strongest on the market!

Packed in Friction-Top Tins
Preventing Loss by Evaporation.

24 sheets, 75c. 144 sheets, \$3.50;
248 sheets, \$6.50 (only 2½c. each).

furnishes the easiest method
of fumigation ever devised.



"NICO-FUME"

LIQUID

LIQUID:

Contains over

40% NICOTINE

Unsurpassed in Quality

**SUITABLE BOTH FOR
FUMIGATING
AND
SPRAYING**

Compare Quality and Price with
other preparations:

GALLON	\$10.50
HALF GALLON	5.50
PINT	1.50
¼-PINT	.50

**BIG
CUT
IN
PRICE**

...OF...

NICOTINE

Our facilities for the manufacture of Tobacco Products are unequalled. Our exhibit of same
received the highest award at the St. Louis Fair.

THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky., U. S. A.

HORTICULTURE

Vol. II.

OCTOBER 21, 1905

No. 17



HARDY GRASSES
In Elizabeth Park, Hartford, Conn.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

ADVERTISE YOUR FALL BUSINESS

Horticulture's Readers Comprise the Most Intelligent and Progressive Class. Their Trade is the Kind You Want

Offer the Right Goods in the Right Way in the Columns of Horticulture and New Business will Follow

Here are a Few Unsolicited Testimonials From Those Who Have Tried It

ALL SOLD OUT.

S. Sudbury, Mass.
We have no more plants to sell, so stop the ad. COOLIDGE BROS.

IT DOES THE SELLING.

Stop our ad. in Horticulture for Prosperity carnation; all sold. Your paper certainly does the selling.
AUGUST GAEDEKE & CO.

ENTIRELY SOLD OUT.

Discontinue our ad. for thermometers after this week's edition. Entirely sold out and unable to procure more.
Yours respectfully,
WM. ELLIOTT & SONS.

ENTIRELY SOLD OUT.

Gentlemen:—Please discontinue my ad. in Horticulture, as I am entirely sold out and have nothing more to offer at present. Just as soon as I have anything to advertise you shall hear from me.
Yours truly,
T. ROLAND.

RESULTS EMINENTLY SATISFACTORY.

It is a pleasure for us to say that the results from our advertising in Horticulture have been eminently satisfactory, not only in the number of inquiries received, but in direct sales as well. We congratulate you upon the strong showing you are making.
Very truly,
THE DINGEE & CONARD CO.
West Grove, Pa.

MOST SATISFACTORY RESULTS.

Dear Sir:—It gives me pleasure to state that the advertisement I placed in your paper has given most satisfactory results. Would further add that Horticulture is a credit to the publisher and is deserving of a grand effort on the part of those in the florists' profession (and especially those of the New England States) to use its columns to help place it in the leading position where it should be (if, indeed, it is not already there).

Wishing you continued success, I am,
Yours very truly,
H. M. TOTMAN.

ENTIRELY SOLD OUT.

Kindly discontinue our advertisement after the issue of this week; we are entirely sold out of Wellesley plants.—Waban Rose Conservatories.

RETURNS VERY SATISFACTORY.

To Horticulture:—As we have taken orders for about all our salable stock, we shall have to stop our ad. for the present, otherwise we certainly should have kept it going. Our returns through Horticulture are very satisfactory and we shall patronize same on a bigger scale when we start again.
Very truly yours,
PQAT BROS.

Etrick, Va.

"WE COVER THE COUNTRY."

Thanks to Horticulture, we are daily receiving orders and inquiries from all over the country, as well as from Canada, Porto Rico and Cuba, which goes far to prove the value of Horticulture as an advertising medium. We are very pleased with the results of our advertising in Horticulture, and wish every success to the paper and editor.
Respectfully,
A. LEUTHY & CO.

AMPLE JUSTIFIES THE EXPENDITURE.

Wm. J. Stewart, Editor Horticulture:
Dear Sir:—We wish to throw two bouquets. One to you, the other to ourselves. We sincerely congratulate you upon the wide and valuable circulation Horticulture must have, judging solely by the inquiries we have received as well as the orders placed through our advertisement. We find it reaches far and beyond what we surmised (New England). Our letter list shows that its advertising columns extend to and beyond the Great Lakes. Therefore, we throw you the first bouquet, and the second one we feel justified in casting our way, that we evidenced good judgment in placing the circular ad. with you. What we have already received amply justifies the expenditure. We remain, very truly yours,
WILLIAM W. CASTLE.
For Holly-Castle Co.

PLANTS ALL SOLD.

Please discontinue my ad. Plants are all sold. G. HANSON.
Harrisburg, Pa.

FOUND A PURCHASER.

Glad to tell you that I found a purchaser for the Rhode Island greenhouse through my small advertisement in Horticulture. A. MILLAR.

THE BEST FOR THE MONEY.

I appreciate your paper as an advertising medium. Have been trying the others as an experiment, but you gave me the best ad. I got for the money.
—M. R.

ALL SOLD OUT.

Please discontinue our advertisement of violets as we are all sold out. Yours very truly,—R. Engelman & Son, florists, 379 Elm St., Pittsfield, Mass.

ALL SOLD OUT.

I am all sold out of stock as advertised, so will say that the two insertions will be sufficient at present.
Yours,
J. W. HOWARD.

Somerville, Mass.

LARGE NUMBER OF REPLIES.

Dear Sirs:—Please discontinue my advertisement, as I have sold out all the stock. The large number of replies I received testifies to the value of your paper as an advertising medium.
Yours,
F. E. PALMER.

VERY MUCH ALIVE.

Truly you have reached very nearly the "Ideal" in Horticultural Literature. That you may be successful is my hope, my wish. It almost makes me wish that I was an advertiser, as anything in that line in your paper would be likely to attract attention. Certainly the paper is very much alive. Again, accept my congratulations.—C. L. A.

Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. At our own retail sales are many index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the numbers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers, its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will outboom that popular variety, Mrs. M. A. Patten, three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Hardy Grasses		MISCELLANEOUS	
BEDDING PLANTS—Theodore Wirth—Illustrated.	415	Poor Policy.....	419
A GROWER'S DUTY—R. T. McGorum.....	417	Saving the White Mountain Forests.....	419
DEAN HOLE MEMORIAL WINDOW—Illustrated..	417	Don't	419
EDITORIAL	418	San Francisco Notes.....	419
NEWS OF THE CLUBS AND SOCIETIES		Personal	419
Gardeners' and Florists' Club of Boston.....	420	Obituary	419
Chrysanthemum Society of America.....	420	Medicinal Plants in Golden Gate Park.....	420
Morris County Gardeners' and Florists' Society.	420	"An Elastic Term".....	421
Coming Events.....	420	Extending Our Foreign Trade.....	423
DAHLIA NOTES—George C. Watson.....	421	Business Changes.....	423
CUT FLOWER MARKET REPORTS		News Notes.....	426
Boston, Buffalo, Chicago, Cleveland, New York,		Catalogues Received.....	430
Louisville, Philadelphia.....	423	Public Documents Received.....	430
SEED TRADE.....	430	List of Patents.....	430
Export of Bulbs from China.....	430		

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A Few Remarks About Bedding Plants

All reports made by the local vice-presidents of our national society for the last few years seem to agree that the demand for bedding plants is steadily on the increase, and the question propounded at the Washington convention as to what bedding plants are worthy of special attention from the commercial grower is deserving of serious and intelligent consideration.

With the increasing demand for quantity comes naturally also a call for increased variety, and while our commercial florists, generally speaking, have done their best to meet the former they have been and are still rather slow in satisfying the latter, and this to their own disadvantage. There is no excuse for it for the numberless introduction of merit seen at every flower show and exhibition speak for themselves, and an earnest attempt to put them on the market would prove that many of those plants are grown as easily as geraniums, coleus and ageratum; would be bought as readily and give as much or more satisfaction.

Treating the subject in a broad way, I will refer to some bedding shown in our Hartford parks during the past season, not because I mean to say that those beds were better than were seen anywhere else, but because they contained a larger variety of plants in their make-up than is found as a rule elsewhere and because the large number of plants and varieties were the output of a comparatively very small greenhouse plant, and were grown at as low a cost as any bedding plants can be grown. In other words, with a few exceptions, such as crotons for instance, all varieties hereinafter mentioned shows a bed 40 feet in diameter; the perennial grasses

Arundo donax glauca and between them *Ricinus Zanzibariensis* and *R. Gibsoni*, and just outside of it *Canna musafolia*. Around them are *Erianthus Ravennae*, *Eulalia zebrina*, *E. gracillima* and *E. Japonica variegata*. Next to the eulalias comes a row of *Pennisetum macrophyllum* alternated with *Canna gloriosa*, then a solid row of *Pennisetum Ruppelianum* and outside of same *Pen-*



No. 2

nisetum longistylum. Around the whole bed is a border of *Iresine Lindenii*, put there for the sole purpose of holding up *P. longistylum*, which is easily laid low by its own weight or wind. The whole bed is very effective and graceful, and its cost of planting smaller than almost any bed of its size. The plants in this bed which I would point out as especially deserving of more attention by the grower are the different *pennisetums*.

Illustration No. 2 shows a similar good effect of grasses with an additional mixture of the following plants; *Musa ensete*, *cannas*, *Cleome pungens*, *Nicotiana colossea*, *N. Sanderiana*, *Caladium esculentum*, *Alocasia odorata*, *Salvia splendens*, *Pittierii*, *patens* and *farinacea*, *Tritoma uvaria* and *Pfitzeri*, *irises*, *funkias*, *Celosia plumosa*, *Artemesia stelleriana*, *Verbena venosa* and *Amaranthus tricolor*. The whole combination is very pleasing and attractive, and *Cleome pungens*, *Salvia patens* and *farinacea* and *Verbena venosa* are among those plants that deserve more general usage.

After all, as glorious and attractive massing of distinct colors may be on large or smaller scales, an artless inconspicuous mixture of foliage and all colors of flowers will in the end win out as the combination of everlasting beauty. Were the *Crimson Rambler* rose to bloom the season through we would get as tired of it as we get of the glorious but brutal display of the red masses of the *salvia* beds, so conspicuously displayed all over the country. Yet take the very same *salvia* and let its flower spikes project through the graceful foliage and plumes of a *pennisetum* or be mingled with the leaves and flowers of a *heliotrope* and its glaring color will at once tone down to an agreeable combination. In place of planting such glaring colors so much in



No. 1

can be grown as cheap and cheaper than geraniums or coleuses.

Generally speaking, I believe that we do not make enough use today of ornamental grasses. They are not only useful as backgrounds against buildings, shrubbery or the bordering of ponds, but also in good-sized flower beds. The accompanying illustration (No. 1) having been two years in position, receiving a heavy mulching for winter protection. We have in the center

masses, mixed plantings are more tasteful and of more lasting attraction.

Illustration No. 3 shows a mixed bed of the following plants: Standard heliotrope, cannas, *Artemesia stel-*



No. 3.

leriana, *Salvia splendens*, geraniums, *Coleus* in var., Begonias in var., *Iresines*, *Impatiens Holstii*, *Celosia cristata*, *Cuphea ilavea*, *C. platycentra*, *Abutilon Savitzi*, *Lobelia Crystal Palace Gem*, *Centaurea candidissima* and *Thymus variagata*. The standard heliotropes are about 3 feet high and the underplanting covers the naked stems. Of the plants herein named *Impatiens Holstii*, *Celosia cristata*, the cupheas and thymus are worthy of more general culture.

The one bedding plant which above all is worthy of more general recognition by the commercial grower is the easy-grown, thankful-blooming all-around adaptable begonia in its many varieties and types. It beats the geranium in every respect, and why it is not more grown and put on the market, two to every geranium, is a mystery to me. The public does not want it? I say it does. We had the best geranium beds this year we ever had, until a rainy spell came along and spoiled them for good. Right next to them are the begonias in all their glory of foliage and blossoms, just as good as ever, rain or shine. There is a bed of twelve varieties

There is another bed of Vernon type seedlings with the *Erfordii* as a border, and they are today, the 6th of October, as beautiful and perfect as they were two and three months ago. Illustration No. 4. I say to you, commercial florists, grow begonias. Even the tuberous begonia should be used more generally as a bedding plant; for with proper soil, drainage and liberal watering it will stand more sunlight than it is given credit for.

Another plant that in my opinion is not enough used as a general bedding plant is *Vinca rosea* and *alba*. How easy and inexpensive is its production and how gratefully it blooms from the very beginning to the very last day of the season. Illustration No. 5 shows a narrow bed of same with a collection of cannas and a border of ageratum, the vinca and the ageratum making as fine a display of our national colors as they are graceful in their combination of foliage and flowers.

Other good plants for bedding and not enough used are *Cyperus gracilis*, *C. alternifolius*, *C. papyrus*, *Helianthus cucumerifolius*, *Cochia scoparia*, *Perilla Nankinensis lacinata*, *Iresine Lindenii*, *I. aurea reticulata*, *I. Wallisii*, *Lobelia cardinalis*, *Lobelia tenior*, *Abutilon Savitzi*, fancy-leaved caladiums, *Viola cornuta*, *Pilea serpyllifolia*, *Gnaphalium lanatum*, *G. minimum*, *San-*



No. 5.

tolina tomentosa, *Grevillea robusta*, *Carax Japonica*, *C. Vilmorini*, *Stevia variegata*, *torenia*s, *lantanas* and *gomphrena*.

The progressive commercial florist, on whom the flower-loving public has to depend for its own progress in floriculture and the ornamentation of its home-grounds, should give this matter more attention. The private gardener can give him good points along this line and this is one of the reasons why commercial florists and private gardeners should as brothers of one craft become more closely affiliated than they are today.

I should be pleased if these lines would bring forth an exchange of ideas both as to the value of plants herein mentioned and others as being worthy of more general culture, the best way of bringing same about and methods of closer affiliation.

Wendell Worth



No. 4.

grown from cuttings, viz.: *B. Vesuvius*, *Triumph de Lorraine*, *Boule de Neige*, *Glory de Montel*, *Erfordii*, *Weltoniensis*, *Cameo Blanc*, *Berna*, *Gracilis*, *Vernon semperflorens*, *Vernon semp.*, *alba* and *B. Bijou*.

A Grower's Duty

There is a certain man in a certain western city who is getting blamed very badly for not showing in a certain fall exhibition in a certain eastern city, and he is getting hit pretty hard, and a certain society is getting hit indirectly through this gentleman. There are murmurings and deep growls when the name of this gentleman is mentioned in certain circles and trouble begins whenever his initials are breathed. There are other gentlemen who, as members of the rose society and not so far away, have acted worse and still they are received with open arms in that same eastern city. That was a pert remark from one of our rising young men which appeared in HORTICULTURE in one of the April issues:

"Madame Abel Chatenay, like some of our noted rose growers of the country, was a prominent absentee."

There is quite a lot of meat in this remark.

Last spring was the first time that we were given the honor of having the rose society in Boston. Growers from all over the country came with something of merit to help make the show a success. It certainly was the best rose show I ever had the pleasure of attending, and it may not be out of place to say that it was a good thing to have a wholesale man as one of the judges. The roses were judged as they ought to be,—in condition to ship. In some of our former shows it has been the biggest flower, even if it was very much open, that won the prize. To return to the foregoing remark: some of our growers, men that could have almost filled the hall with blooms, men who get pictures of their houses in the trade papers, get their places written up but will not come into the family circle of their society when it is at their doors, aren't men to associate with. We can't all go around in our automobiles and see what the other fellow has, just before the show, and then get scared lest we loose our laurels "on paper," that we may have gained. We can't all contribute a trainload of a commodity when that commodity is high; we can't all sit in our offices and clip coupons and watch the ticker of the stock market, but those of us who work hard and earn our bread for ourselves and family from our specialty and, when we get a chance like last spring, do show some of our product, and even if we do get licked, give due credit to the man who did it, have no use for the men who can but won't do anything towards helping a flower show of importance yet are eager to reap the benefits from the after effects. Ignorance of their position, or love for the almighty dollar may be their excuse; if so, they are to be pitied. Any foreman who has such a proprietor to deal with should try to educate him to his true position and show him that it is his bounden duty, even if he shouldn't belong to the society, to contribute samples of his product and help along an exhibition that the men whom he is in trade competition with are striving to make—and did make a grand success.

Robert W. Brown

Dean Hole Memorial Window



Reproduced from the *Gardeners' Chronicle*.

The illustration represents a window in stained glass which has been erected to the memory of the late Dean Hole, and unveiled in Cauntton Church, Newark, on October 5. The window contains three lights, the centre one having the figure of St. Andrew (the patron saint of the church at Cauntton), while in the left light is St. Elizabeth of Hungary, and in the right one St. Dorothy. There are angels at the top of each of the lights, the one over the centre light bearing a scroll, upon which is inscribed "The desert shall rejoice and blossom as the Rose." There are two angels holding a scroll, upon which are the following words:—"Right dear in the sight of the Lord is the death of His saints." The arms of Rochester and those of the late Dean appear under the central light. There is an inscription running at the base of the window through the three lights: "To the glory of God, and in loving memory of Samuel Reynolds Hole, D. D., many years Vicar of this church, and late Dean of Rochester, this window is offered by parishioners and friends. 1905."

The work was designed and executed by Percy Bacon & Brothers, of London and Edinburgh.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

A good combination

Sometimes we listen to expressions of surprise at the large number of wholesale florists advertising and the amount of money they expend in this direction, coupled with wonder as to how so many of them exist. But are they not among the keenest and most alert men in the flower business today? You cannot beat the combination of business instinct and liberal advertising. To get along without either of these requisites nowadays is not easy.

A comparison

Good chrysanthemums sold in the Boston market last Saturday at four dollars a hundred. Good dahlias brought the same price. We do not need to more than refer to the wide difference in the cost of producing these two flowers and are not likely to be accused of a misstatement in asserting that the sale in one case represented a loss and in the other a profit.

Counting the cost

We have heard it remarked, not infrequently, that a great many growers of cut flowers are unable to tell whether they are making or losing on the prices at which they sell their product. Under present conditions which, by the way, are pretty sure to continue, with sharp competition in production and its resultant depression in values, the haphazard policy of the past becomes much too risky. The time has come when every grower must think and make careful calculations, and comparisons such as we have called attention to in the above paragraph are worth making a note of.

Saving the dahlia crop

In the Philadelphia cut flower markets the dahlia has worked rapidly up to a position of unheard-of prominence. This is of course due largely to the commendable work of the Atco farms in specializing and improving the dahlia. But Philadelphia has a certain advantage over the markets north of her in the immunity from severe frosts during the height of the dahlia season—September and October. Last year all tender material in the neighborhood of Boston was cut off on September 20 and our recollection is that the same freeze finished all the dahlias in the vicinity of New York, and this is liable to happen any year. Unless some means of protection can be devised against such a contingency we can hardly expect the northern grower to become very enthusiastic on the subject of dahlias as a staple in the cut flower market. At the prices now obtainable,

however, with the superb varieties that are coming forward, it seems to us that growers might with profit take a few lessons from the tobacco growers of Connecticut and adopt something on the same lines as are followed in protecting the tobacco crops in that section.

Protect the trees

How best to protect the trees along the rural roadside and secure for the public who use these highways the grateful shade and comfort which Nature has provided, is a problem worthy of the best consideration of all citizens, whether in a public or private capacity. Indifference to these objects which so enhance the beauty of their homes, as well as a large degree of selfishness, is all too prevalent among the people of the rural communities. Persistent agitation has brought about a wonderful improvement in the roads. Let us hope that a similar process may in the near future accomplish as much for the trees.

An overestimated qualification

Stems, stems, stems, are still the great ambition, aim, and pride of the rose grower and there are strong symptoms of the same malady in the carnation grower. Stem is but one of several qualifications of a good specimen. It does not make up for lack of other good qualities and when overdone becomes a defect. We think that the grower is, in many instances, disposed to overestimate the value which the buying public sets upon this point. It is probable that in a majority of cases where very long-stemmed roses are delivered the receiver will promptly cut off and throw away a good section thereof. Stem is the only quality of a first grade flower that can be reduced without detracting from its intrinsic worth. Weaken the color in the least degree, shorten the petal or tear it off, deaden the fragrance, tamper with either bloom or foliage in any way and the damage is absolute. Were some of the growers as solicitous for perfection in these qualifications as they are about the length of stems we should see fewer bruised and torn petals, fewer faded buds in the boxes that come to the wholesalers and the figures on the return slips would in many cases be larger than they are.

A word for the house plant

With the departure of out-door verdure comes the time when the plant grower and his product again find a place in the public mind and the work of preparation for the anticipated demand is well under way. We all realize that the pot plant industry is as yet only in its infancy in this country and that the grower who plans systematically to devote his energies to this particular field takes no risk if he works with an intelligent idea of what the public wants and a purpose to supply it accordingly. Unquestionably the future prosperity of the plant business depends upon the conditions under which the goods are grown and sold. The temptation is to push them along rapidly at the expense of sturdiness and resistant power, and to sell them before they have become thoroughly established in their pots. Eventually the loss far overbalances the advantage gained by this policy. How many good buyers have been disappointed and prejudiced against house plants because of the short-lived specimens delivered to them, strength all exhausted by high-pressure culture. The hardening-off and preparing a plant for the severe test of its future existence under unavoidably trying conditions comes next in importance to the work of growing them.

POOR POLICY.

Under the above caption The Boston Herald has this to say:

"Henry Phipps, a wealthy resident of Allegheny, Pa., gave to the city a public playground valued at more than a million dollars. He did not give the city a deed of the property, but it was well understood that it was to be used for all time as a public playground. But for some reason the city fathers of Allegheny refuse to exempt the property from taxation, and as a result the property is to be sold to satisfy a claim of \$2155. This money Mr. Phipps declines to pay, and he feels very bad over the action of the city where he was born, because it has treated his offer in such a manner. He will, therefore, discontinue the playground and put up warehouses on the property. It seems to us that the city fathers of Allegheny have a very poor idea of the value to the community of such public playgrounds as this one offered by Mr. Phipps. They might well afford to exempt such property from taxation in view of the great good which would come to the people from its use. The public health would be benefited to a degree which few can appreciate. Public playgrounds have come to be accepted as an excellent method for keeping young people interested in good athletic sports and in keeping them out of saloons or from indulging in mischievous pranks which often lead to something worse."

In substance the above is true; but the value of the property is enormously overestimated. It is not worth anywhere near 10 per cent of the value stated. It is a tract of a square or so in a poor part of the city, and had to be filled up some feet to bring it above river high water mark. When he fixed it up for a public playground it is the general opinion that Mr. Phipps should have deeded it over to the city in perpetuity as such.

Allegheny is already lavishly supplied with park grounds running through its whole length. The people of Pittsburgh and Allegheny have at all times shown an advanced appreciation of their parks and probably know what they are about in this instance.

SAVING THE WHITE MOUNTAIN FORESTS.

A petition signed by 1500 summer guests in the White Mountains and asking that a special session of the State legislature be called to consider "the best methods of preventing the impending devastation of the forests on the Presidential range," has been sent to Governor John McLane, of New Hampshire. The petition says, in part:

"It seems to your petitioners that this noble range should be kept as a State park and a monument to New Hampshire's foresight and liberality. Aside from the importance of the forests to the water supply of this and other New England states, and, aside from the pleasure which their beauty gives to those who visit them, they are important to the State itself in many ways, among which not the least is the annual revenue they bring its citizens by attracting summer visitors. This revenue is put in jeopardy by the destruction of the forests—and that without any adequate compensation from the mere sale of lumber."

DON'T.

Don't shade cyclamens any longer. Don't let poinsettias get dry at the roots.

Don't give ardesias in fruit a temperature above 60 degrees.

Don't accept *Lilium candidum* bulbs raised in Southern France.

Don't have tender stock shipped by freight any later this season.

Don't plan to force tulips for Christmas. It's like throwing money away.

Don't stay from the meetings of the gardeners' or florists' clubs and societies.

Don't depress the rose market by sending in a lot of miserable culs at this stage of the game.

Don't neglect to fire a little in the rose houses every night, leaving a little air on to keep the temperature down.

Don't spoil the chances of the violet season by bunching and shipping the first little scrubs that come out on the plants.

Don't get discouraged if you fail to win first prize at the exhibition, nor raise a ruction because somebody else got it.

Don't let litter or sand covering remain after tops have started out on the lily bulbs. You'll have bare stems at the base if you do.

Don't be in a hurry to begin cutting from young roses. Give them—especially the American Beauty—a chance to get up some size and strength.

Don't fail to make provision for the growing popularity of winter boxes of greenery, such as small conifers, acubas and ivies, for halls and sheltered verandas.

Don't overlook the value, as a home adornment or as a business advertisement on the grounds in front of office or greenhouse, of a generous planting of spring-flowering bulbs.

Don't buy cheap seeds. The after cost is just as much as if the best had been purchased. The difference in market value of the product will quickly offset the increased first cost.

Don't altogether discard a new and well recommended carnation on the results of its first year's cultivation. Overpropagation has given a black eye to many a hopeful variety—like-wise to its introducer.

Don't keep on growing old, long-superseded varieties of bedding and greenhouse plants. The newer and better things occupy no more room, cost no more for care and bring more money. Don't stagnate.

Don't overlook the rapidly growing demand for small ferns. A home without a jardiniere will be a novelty before long. At the low wholesale rates quoted by Horticulture's advertisers there's money in small ferns for the retail dealer.

Don't carry over and encumber your houses with a lot of stock that cannot turn you in a profit on the cost of its winter's keep. If advertising doesn't sell it out, pack the remainder off to the auction room, take your cash and fill your space with something remunerative.

SAN FRANCISCO NOTES.

Thomas H. Wright, a prominent retail florist of Los Angeles, has this month opened a wholesale flower market.

William McElroy, formerly in charge of the orchid houses at the John H. Sievers Co. nursery, has taken a salesman's place with the California florist, Julius Eppstein. The Sievers orchid houses are well worth seeing. These plants vie with the Hannah Hobarts in the attention of the nursery superintendent, Niels Peterson.

Mrs. J. R. Martin, general director of the expected great show to be given next month by the California State Floral and the Pacific Coast Horticultural Societies, is a "hustler" in an advertising way. She estimates that the revenues from her souvenir will pay expenses and leave several hundred dollars in the coffers of each society.

Mr. Jaccard, of the firm of F. A. Jaccard & Co., 1106 Sutter street, has sold out his interest to his partner, Mr. J. Gouvailhardon, who was the practical florist of the firm. Mr. Gouvailhardon entered the business thirteen years ago with Serveon Bros., and until Jaccard & Co. was established last year he conducted for six years their 16th street store.

That advertising is a good thing I submit as evidence the following: For a number of weeks the John H. Sievers Company have been advertising in Horticulture the Hannah Hobart carnation, that orders for rooted cuttings would be filled in rotation, beginning January 1 next. This week I was kindly accorded the privilege of looking over their Hannah Hobart order book, and found that the orders for cuttings to date aggregated upward of sixty thousand!

October is dealing first-rate with local florists and plantsmen. This second week of the month the United Daughters of the Confederacy have been in session here and the daily decorating of the assembly room and the dozens of bouquets showered upon the charming "Dixie" lassies, have given business an unexpected boom. One afternoon of the week at the Presidio grounds, with impressive ceremonies and the repetition of "Dixie" over and over again by the band loaned by Uncle Sam, they planted a tree from each of the ex-confederate states.

PERSONAL.

Miss Alice M. Waltham, daughter of Geo. C. Waltham of Dorchester, and Edwin Wreghit, formerly of Dorchester, were married at Montreal, Canada, Sunday, Oct. 15.

Among recent visitors to Philadelphia were the following: W. F. Gude, Washington; Peter Demas of the Pittsburgh Floral Exchange; Chas. A. Whittet, superintendent of parks, Lowell, Mass.; Edward Earnshaw of the Bonora Co., New York City; David Geldis, Pittsburgh; F. Lautenschlager, Kroeschell Bros., Chicago.

OBITUARY.

Elmer H. son of C. E. Mansfield of Fitchburg, Mass., died on October 9.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of this club last Tuesday evening was remarkable for attendance, there being 153 members present and 19 new names were added to the roll. A delegation of visitors from the North Shore Horticultural Society was received with fraternal greetings and the compliment of honorary membership was bestowed upon one of their number, Mr. Joseph Clark of Manchester. The nominating committee for officers to be voted for at the annual meeting was appointed to consist of Charles Sander, W. E. Fischer and W. H. Elliott. An invitation was received and accepted to visit the greenhouses of the Waban Rose Conservatory on October 28, and it was announced that Prof. B. M. Watson, of the Bussey Institution would be the speaker at the next meeting of the club. The permanent committee on exhibits was made up of Messrs. Robert Cameron, J. A. Pettigrew, Peter Fisher, W. N. Craig and A. H. Fewkes. On the exhibition table were the following interesting exhibits: Rose Wellesley from Waban Rose Conservatory. English melons from W. N. Craig; also Cattleyas Lawrenceana, labiata, leucoglossa and Portia from the same gentleman; Gov. Herrick violet from Wm. Sim; Rose Mrs. Pierpont Morgan from Robert McGorum; carnations, sports from Lawson, from H. A. Stevens; salmon seedling carnation, No. 10, from Peter Fisher; cotton plants from the Department of Public Grounds, Wm. Doogue, supt.; chrysanthemums, F. A. Cobbold; Cheltoni, H. J. Jones, Mrs. S. T. Wright, Lord Hopetown, F. S. Valis, Mrs. H. A. Miller and Mrs. Wm. Knox, from W. A. Riggs. Mr. J. A. Pettigrew delivered a very interesting paper giving reminiscences of his recent European trip, which we shall present in full to our readers in next week's issue. A collation and songs filled up the social part of a meeting long to be remembered.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The Chicago committee of the Chrysanthemum Society of America judged seedlings Saturday, October 14, as follows:

No. 6, exhibited by H. W. Buckbee, Rockford, Ill., pink type of Glory of Pacific, scored 85 points, commercial scale.

Seedling (Opah X Monrovia), creamy white, type of Vivand-Morel, exhibited by Nathan Smith & Son, Adrian, Mich., scored 80 points, commercial scale.

Seedling (Opah X Mrs. Coombs), pink, type of Vivand-Morel, exhibited by Nathan Smith & Son, Adrian, Mich., scored 82 points, commercial scale.

Examined by the New York committee, Oct. 14, 1905: Seedling No. 12-11-

03, Rosiere, exhibited by Nathan Smith & Son, Adrian, Mich., lilac pink, Japanese type, scored 85 points, commercial scale.

Philadelphia, Oct. 14, 1905: Seedling No. 11-27-04, exhibited by Nathan Smith & Son, Adrian, Mich., white, Japanese reflexed, scored 84 points, commercial scale. Remarks—Had the foliage been as good as the flower, variety would have scored better.

Also at Philadelphia: Seedling No. 12-11-03, Rosiere, exhibited by Nathan Smith & Son, Adrian, Mich., pink, Japanese reflexed, scored 85 points, commercial scale.

At Cincinnati, Oct. 14, 1905: Seedling No. 12-11-03, Rosiere, exhibited by Nathan Smith & Son, Adrian, Mich., pink (Magenta), outer petals shaded silver pink, Japanese reflexed scored 85 points, commercial scale.

Also at Cincinnati: Seedling No. 11-27-04, October Frost, exhibited by Nathan Smith & Son, Adrian, Mich., white, Japanese type, scored 86 points, commercial scale.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

The October meeting of this society came pretty nearly being a strictly business one. On account of the severe storm only fourteen members were present.

R. Vince showed one hundred Plancee carnations, extra good for so early. Certificate of merit was awarded.

Preparing for the flower show took up the rest of the time. Wm. Turner of Oceanic, N. J., Thos. Head of Grotton, Conn., and James Blair of Staatsburg, N. Y., are to act as judges. Many entries are already received and outlook for more is bright. Some striking new "mums" are to be with us: a half dozen carnation novelties we are promised. One man has a two hundred and fifty pound squash he is anxious for us to have.

A committee on arrangements composed of Messrs. Totty, Duckham and Herrington will have their hands full.

Everything looks as if this show will be fully equal, if not better, than any show we have ever had. We will tell you more about it when it is over. E. R.

COMING EVENTS.

Bay Shore Horticultural Society, second annual exhibition in Carleton Opera House, Bay Shore, N. Y., October 24-25.

Morris County Gardeners' and Florists' Society, tenth annual flower show in Assembly Rooms, Madison, N. J., October 26-27.

American Institute of New York, chrysanthemum show, October 31-November 3.

Tarrytown Horticultural Society, New York, seventh annual exhibition, November 1-2-3.

Nassau County Horticultural Society,

first annual flower show in Pembroke Hall, Glen Cove, N. Y., November 1-2. Monmouth County Horticultural Society, eighth annual exhibition, Red Bank, N. J., November 1-2.

Southern California Horticultural Association, first annual exhibition, Los Angeles, November 2-3-4.

Tuxedo (N. Y.) Horticultural Society, fourth annual exhibition, November 3-4-5.

NOTES.

Edwin Lonsdale reports a big batch of years from the members of the Florists' Club of Philadelphia in response to the invitation of Edward A. Stroud to visit his Strafford carnation farm on Oct. 26.

The Gardeners' and Florists Club of Boston will visit the Waban Rose Conservatory, Natick, Mass., on Sunday, October 28. Cars will be taken at Park square at one o'clock.

MEDICINAL PLANTS IN GOLDEN GATE PARK.

When in San Francisco early last year, Dr. Rodney H. True, who is in charge of the drug and medicinal plant investigation of the United States Department of Agriculture, suggested to the Golden Gate Park Commissioners the desirableness of establishing a drug plant section within the park, the commissioners took up the idea with alacrity. Ten acres of land on the outskirts of the reservation were devoted to the purposes of the drug garden. The planting was done without delay, and this summer the garden is a mass of brilliant bloom, adding to the beauty of the park, as well as constituting an experiment of great utilitarian value. Specimens of medicinal vegetables to the number of 400 are growing there, and each is labeled in a manner showing the natural order or division, the generic title, and the specific and common name. The nativity of the plant is also mentioned, and the parts used for medicinal purposes are indicated.

To maintain and enrich the scope of this garden nearly every country on the globe, save, perhaps, those in the extreme tropics, has been levied upon, but the bulk of the classified plants has been obtained from Germany.

It is the view of the officials connected with the drug and medicinal plant investigations of the Agricultural Department at Washington that California is in the matter of soil and climate peculiarly fitted to the production of these growths, and while their cultivation at the park is more or less of an experimental nature, there is not only very little doubt that the ultimate result will be to demonstrate the possibility of producing them on a commercial basis, but certainly the belief that there is a big market—and a home market, too—for medicinal plants. The United States buys abroad each year vegetable drugs of the value of \$16,000,000. There is no reason why almost the whole of this money should not be retained in this country.

Constantly getting into a pickle—the cucumber.

AUCTION SALES every TUESDAY and FRIDAY

An excellent opportunity to stock up with a high class of Decorative Stock, grown by well known growers. Will also offer each day Bulbs, Dutch and Bermudian.

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DAHLIA NOTES.

Watson's Idea of the Best Commercial Sorts Seen at Peacock Dahlia Farms.

Two of the finest of the big show whites are John Walker and Storm King.

Eureka—Decorative, pink. Petals quilled full to center. Dwarf branching habit.

Floradora—Dark crimson cactus. Pointed petals, quite full to center, medium height and branching habit.

Ami Barillet—Single scarlet; dark bronze foliage, which reminds one of a bed of dark-leaved cannas. Dwarf.

Bird of Passage—Show, pink, flushed with crimson.

President Viger—In our opinion this, the first of the collarette type, is still the best.

Pink Century—Single; I would call this the biggest and best of all the 20th century seedlings. Shell pink blooms averaging 6 to 8 inches in diameter.

Twentieth Century—Although not as large as pink century, the lovely blending of wine, red and white in this variety puts it in a class by itself.

Gorgeous—A seedling of 20th Century; dazzling scarlet.

Aegis—Curiously twisted and incurved cactus. Glowing bright red.

Clifford W. Bruton—Decorative; the best double yellow in existence today.

Kriemhilde—The best pink cactus with pink petals so far. Outside petals pink, centre white. It brings a high price in the cut flower market. Victor Von Schaeff, which was introduced this year as an improvement on Kriemhilde, does not, in our opinion stand in the same class.

Apple Blossom—Show; color well indicated by the name.

William Agnew and Katherine Duer—Two finest reds in existence today. Both of the decorative type and very effective for table decorations under artificial light. Both command good prices as cut flowers.

Fern-leaved Beauty—Fancy class. White, striped with deep crimson.

Kaiser Wilhelm—Very similar to Oriole, but better. Quilled petals, bright yellow, tipped with carmine.

Arabella—A yellow show, tipped old rose and lavender. Emily Edwards is another lovely show variety; white, suffused with pink.

Buttercup—A single yellow, not particularly remarkable for size, but for quality it is simply immense. Stems slender, strong and wiry, making it excellent for cutting.

Black Beauty—The best of the very dark; much better than Black Prince.

Lyndhurst—Scarlet, decorative. Nymphaea—For beautiful pink and white and fine cactus form, Nymphaea is the ideal.

Frank L. Bassett—Decorative; shows up strong at a distance, bright royal purple.

Sylvia—A new decorative, ranking with Bruton and Lyndhurst; white shading to soft pink on outer petals.

Brunhilde—Plum color.

Miss May Lomas—Blush; show.

Arachne—Like a spider, bright red and white cactus, with curiously twisted petals. Variable as to coloring.

Armorer—Red; show.

St. George—Yellow; single.

Alba Superba—For a single white, we think this beats White Century.

It may not be quite as large, but it is purer white and has far better substance. A much better flower for shipping and selling.

Grace—Another good single. The color is white, suffused with blush shading to soft pink at centre. Best of its class.

Henry Patrick—White; decorative.

Grand Duke Alexis—White, tinged with pink.

Red Piper—Pompon; very deep red and fine form. To our mind this is better than sunshine, which is generally cracked up as the best red.

Rosalie—Pompon; yellow, tipped with crimson.

Alewine—Blush pompon.

G. C. W.

S. S. Pennock's Idea of the Best Commercial Sorts.

In connection with the above article by Mr. Watson, it is interesting to note the following list of varieties selected by that keen judge of commercial value, Mr. S. S. Pennock, who went over the same fields about two weeks later than Mr. Watson:

Crimson Century, Nymphaea, Ami Barillet, White Century, Record, Professor Mansfield, Frantz Litz, March of Beebe, Miss May Lomas, Scarlet Century, Sindolt, General Butler, Gailardia, Denver, Standard Bearer, St. George, President Viger, Queen of the Belgians, John Thorpe, Henry Patrick, Scarlet Century, A. D. Livoni, Twentieth Century, Mrs. H. J. Jones, Penelope, Mrs. Keith, Lyndhurst, William Agnew, John Elitch, Carol, Gorgeous, C. W. Bruton, Arabella, Kriemhilde, Perle d'Or.

PITHY AND TO THE POINT.

It gives me great pleasure to receive Horticulture. It is pithy and to the point; a journal that every one in the profession ought to read. Please find check for \$1.—W. W.

"AN ELASTIC TERM."

"So fer as I'm able to make out through gen'ral hobervation, the great trouble wi' gard'ners is that there's too many of 'em. They may not be all good 'uns, but that ain't the point. Just now, and the word gard'ner, by the way, is a verry elastic term. It describes the hobccupation o' the hement 'orticulturist, who manages the hextensive domains o' the lord o' the manor, just as it does that o' the individual who looks arter th' parson's garden, tends to 'is pony, feeds 'is pigs, cleans 'is knives and boots, rings th' church bell for service, puts in th' amens at th' end of th' prayers on Sundays, buries th' dead, and fills sundry other hofises, perokial and otherwise, for the magnificent stipend of one pound a week and such little hextras as can be picked up. In an hobccupation havin' such a wide range, so to speak, it ain't surprising that it inkludes a large number o' praktishioners, and just wen a man is a gard'ner or ain't a gardner is largely a kwestion o' personal opinion. Personally I don't perfess to call myself a gard'ner, laborer is good enough for me; but if I was to suggest to th' parson's handyman, referred to above, as he woun't a gard'ner in th' true sense o' th' word, why 'e'd take it as an hinsult which nowt but blood would wipe out.—"Old Jim" in The Journal of Horticulture.

COME TO STAY.

Please find herewith \$1 for Horticulture. It is getting better all the time. It touches subjects others have overlooked. There are none to spare of good magazines. I predict this has come to stay.—G. M. K.

The prosperity of many roses depends upon graft.

BULBS

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One of the largest and finest collections for winter and spring blooming ever offered.

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO	ST. LOUIS	PHILA.	BOSTON
	Oct. 18	Oct. 17	Oct. 18	Oct. 19
ROSES				
Am. Beauty and Edgely Fan, & Sp.	25.00 16 3.00	15.00 10 25.00 12.50	25.00 20.00 10 25.00	20.00 10 15.00
Extra.....	15.00 10 20.00	15.00 10 25.00 12.50	15.00 10.00 10 15.00	10.00 8.00
No. 1.....	3.00 10 12.00	10.00 10 12.00 5.00	10.00 5.00 10 8.00	5.00 4.00
Lower grades.....	2.00 10 6.00	1.00 10 8.00 4.00	5.00 2.00 10 4.00	5.00 2.00
Bride & "Maid" Fan, & Sp.	5.00 10 7.00	5.00 10 4.00 2.00	5.00 5.00 10 6.00	5.00 6.00
Extra.....	3.00 10 5.00	3.00 10 3.00 1.00	4.00 4.00 10 6.00	4.00 2.00
No. 1 and Lower gr.	1.00 10 2.50	1.00 10 2.50 1.00	2.00 2.00 10 2.00	2.00 2.00
Liberty, Fancy & Special.....	1.00 10 2.00	1.00 10 4.00 1.00	10.00 5.00 10 10.00	5.00 5.00
Ordinary.....	2.00 10 4.00	2.00 10 3.00 2.00	4.00 2.00 10 4.00	4.00 8.00
Carnot and Kaiser Fancy.....	6.00 10 8.00	5.00 10 6.00 10	8.00 6.00 10 8.00	8.00 8.00
Golden Gate, Chaterney, Fan y.....	3.00 10 5.00	2.00 10 3.00 4.00	5.00 1.00 10 5.00	5.00 5.00
Ordinary.....	2.00 10 4.00	2.00 10 3.00 2.00	3.00 2.00 10 4.00	4.00 4.00
CARNATIONS				
Fancy Class.....	3.00 10 3.00	2.00 10 2.00 2.00	4.50 2.00 10 2.50	2.50 2.50
General Class and Lower grades.....	.75 10 1.50	1.00 10 1.50 1.00	1.50 1.00 10 2.00	2.00 2.00
MISCELLANEOUS				
Cattleya.....	50.00 10 100.00	100.00 10 100.00	100.00 10 100.00	100.00 10 100.00
Lily of the Valley.....	2.00 10 3.00	3.00 10 3.00 2.00	4.00 3.00 10 5.00	5.00 12.00
Chrysanthemums.....	30.00 10 35.00	1.00 10 20.00 6.00	20.00 5.00 10 12.00	12.00 12.00
Violets.....	4.00 10 1.00	2.00 10 2.00	2.00 1.00 10 1.00	1.00 1.00
Glaadiol.....	2.00 10 3.00	1.00 10 2.00	3.00 2.00 10 4.00	4.00 4.00
Dahlia.....	4.00 10 4.00	2.00 10 1.00 1.00	10.00 1.00 10 2.00	2.00 2.00
Adiantum.....	4.00 10 .75	75 10 1.00	1.00 1.00 10 1.00	1.00 1.00
Crownam.....	10.00 10 12.00	12.00 10 15.00 12.00	15.00 8.00 10 10.00	10.00 10.00
Smilax.....	15.00 10 35.00	25.00 10 50.00 25.00	50.00 35.00 10 50.00	50.00 50.00
Asparagus Plumosa, strings.....	30.00 10 35.00	25.00 10 75.00 35.00	50.00 20.00 10 50.00	50.00 50.00
Sprengers, bunches.....	30.00 10 35.00	25.00 10 75.00 35.00	50.00 20.00 10 50.00	50.00 50.00

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Flower Market Reports.

It is hardly possible to BOSTON adequately present in words the depressed condition in the local cut flower market, due to the heavy receipts of the past week and the diminished demand. With the exception of a few of the best quality goods all roses are experiencing an unprecedented period of stagnation. Violets and carnations have weakened materially, the latter moving at figures that the growers agree to only under severest stress. Chrysanthemums multiply, and as they multiply, they move downward in the scale of values. This is especially true of the yellow varieties, which were scarce and in brisk demand last week.

Market has not shown BUFFALO much improvement over last week's report, although a satisfactory amount of business was done and a good lot of stock disposed of considering the mount received. There seems to be no end of short teas; select stock is not so plentiful and demand good as usual. Carnations running about the same, too much short and off-color stock to suit the buyers. Chrysanthemums have not sold as rapidly as they should; again too much ordinary; Robt. Halliday and Lady Harriett are about the best, and are sold quick at good prices. Beauties have fallen considerable; prices very low at times. Dahlias still on hand, demand fair; other stock in good supply.

Business is still very CHICAGO erratic, and one hardly knows what to expect. The busy season seems to be very slowly approaching. Most all our seasonable blooms are reaching their height of popularity. This is most noticeable with chrysanthemums, violets and orchids, the former especially showing a beautiful yellow known as Omega, which is an A1 seller and at a moderate price. Pink 'mums are scarce, but white are abundant, and prices accordingly. All grades of roses are improving in quality, and the supply seems to meet all demands. Eastern violets are certainly grand for this time of the year and seem to be

in great demand; they are unusually good keepers considering their experiences in shipping. Recent rains have spoiled our outdoor stock, still we have sufficient supply of dahlias, cosmos and asters to meet the trade.

The market for cut CLEVELAND flowers is gradually opening up, with better quality and a slight increase in quantity. Chrysanthemums are just coming in and for first ones show splendid culture; lily of the valley is good; violets are showing better color, especially the double varieties. Some fine dahlias, better than have been seen for some time, bring good prices, and cosmos also sell well. This fine weather depresses the bulb market and they move slowly, a good stiff frost being necessary to start them going.

We have to report a NEW YORK very unsatisfactory business for the past week in the cut flower markets. The very heavy product now being sent in is far beyond the needs of the market and prices have taken a very precipitate tumble in all lines, the drop being in some cases fully fifty per cent. Further—a considerable part of the remainder, after the select material has been disposed of at low prices remains to be offered in bulk at any street speculator at whatever he is disposed to give for it. Chrysanthemums are crowding on and have to take their chances in the existing depression, although many lots of exceptional quality are to be seen. In orchids, the glut of catleys that made trouble last week has gone by and better prices are quoted. Oncidium are coming in freely. So long as the fine autumn weather continues there is little promise of improvement in the tone of the market.

Business conditions the LOUISVILLE previous week were gratifying. Chrysanthemums are appearing and are very welcome. Carnations of good quality sell well, but there is no surplus. The supply of good roses is adequate to the demand. Cosmos can be had in great quantities, and sells well. Dahlias are about over. Violets of good quality are proving favorites. Other stock is about up to expectations.

With the exception of PHILA- Wednesday and Thursday, which were very bad days, business last week was fair. Roses shortened up towards the end of the week. Beauties are fine and plentiful. Prices on same are low, which accounts for them moving off as well as they do. Richmonds are coming in in nice shape and are taking well. Liberties are also good. Both bring exactly same price. Killarneys are still short in the stem, but are improving. Chrysanthemums are more plentiful and have dropped in price. We have heard of some lots being disposed of

to the street men as low as \$3 per 100. Dahlias are still fine and coming in in immense quantities. Prices are very low. Carnations more plentiful and better quality, but going sluggish. Violets are in fair demand for good quality, but there is much poor stock. Gardenias scarce and selling well.

EXTENDING OUR FOREIGN TRADE.

A circular letter issued by the Department of Commerce and Labor to manufacturers and exporters, states that the Department is desirous of securing the co-operation of manufacturers and other persons interested in its efforts to extend the foreign trade of the United States.

In furtherance of this work, it is proposed to establish a comprehensive card index which will enable the Department, upon application, to furnish information desired by manufacturers, or by purchasers, and it is contemplated to extend the system, if the necessary authority shall be granted by Congress, to the principal consulates.

To enable the Bureau to prepare such an index, blanks and return franked envelopes are supplied on application on which any pertinent information may be recorded in connection with the business of the applicant. We are asked by the Department to call the attention of our readers to this system so that those who desire may avail themselves of this opportunity to be in touch with foreign markets. Address John Carson, Chief, Bureau of Manufactures, Washington, D. C.

BUSINESS CHANGES.

The Overbrook Gardens, Overbrook, Pa., have given up the cut flower and decorating departments of their business and will hereafter confine themselves to growing select greenhouse plants and hardy perennials.

Ernest Wanamacher has opened a flower store at Overbrook, Pa. This is the first venture of the kind along the main line and so far has been very successful. Mr. Wanamacher is young and ambitious and has had good experience both in producing and selling. His latest experience was with J. J. Habermehl's Sons, of Philadelphia.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 14 1905		First Half of Week beginning Oct. 16 1905			Last Half of Week ending Oct. 14 1905		First Half of Week beginning Oct. 16 1905	
Roses					Carnations				
Am. Beauty, fan and sp.....	15.00	to 20.00	10.00	to 12.00	Fancy Class.....	1.50	to 2.00	1.50	to 2.00
" extra.....	3.00	to 10.00	8.00	to 10.00	General Class and Lower grades.....	.75	to 1.00	.75	to 1.00
" No. 1.....	5.00	to 6.00	4.00	to 5.00	Cattleyas	20.00	to 10.00	30.00	to 35.00
" Lower grades.....	1.00	to 3.00	1.00	to 3.00	Lily of the Valley	1.00	to 3.00	1.00	to 3.00
Bride & "Mad, fan and sp.....	4.00	to 5.00	3.00	to 4.00	Chrysanthemums	4.00	to 25.00	4.00	to 25.00
" extra.....	2.00	to 3.00	2.00	to 3.00	Oncidiums	2.00	to 3.00	2.00	to 3.00
" No. 1.....	1.50	to 2.00	1.50	to 2.00	Lilies	6.00	to 10.00	6.00	to 10.00
Liberty, fan, and sp.....	6.00	to 10.00	6.00	to 10.00	Violets.....	.20	to .50	.30	to .60
" extra.....	1.00	to 4.00	1.00	to 4.00	Dahlias.....	.75	to 2.00	.75	to 2.00
Carnot and Kaiserin, fancy.....	4.00	to 5.00	3.00	to 4.00	Adiantum Cuneatum.....	.25	to .50	.25	to .50
" Ordinary.....	.50	to 2.00	.50	to 2.00	Crownam.....	.50	to .75	.50	to .75
Golden Gate, Chatsenay, fancy.....	3.00	to 4.00	3.00	to 4.00	Smilax	8.00	to 10.00	8.00	to 10.00
" Ordinary.....	.50	to 2.00	.50	to 2.00	Asparagus Plumosus, string	20.00	to 35.00	20.00	to 35.00
					Sprenget, bunches.....	5.00	to 10.00	5.00	to 10.00

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Am. Beauty, fan, and sp.	to 25.00	20.00	to 25.00	20.00
" extra	18.00	to 20.00	12.50	to 20.00
" No. 1	12.50	to 15.00	8.00	to 10.00
" Lower grades	0.00	to 8.00	4.00	to 6.00
Bride and Maid, fan and sp.	3.00	to 4.00	3.00	to 5.00
" extra	3.00	to 4.00	3.00	to 5.00
" No. 1 and Lower gr	1.00	to 1.50	2.00	to 2.50
Liberty, fan, and sp.	1.00	to 1.50	2.00	to 2.50
" Ordinary	1.00	to 1.50	2.00	to 2.50
Carnot and Kaiserin, Fancy	5.00	to 5.00	5.00	to 5.00
" Ordinary	3.00	to 4.00	3.00	to 4.00
Golden Gate, Chateaux, Fancy	2.00	to 3.00	2.00	to 3.00
" Ordinary	1.00	to 2.00	1.00	to 2.00
CARNATIONS				
Fancy Class	to 2.00	to 2.00	to 2.00	to 2.00
General Class	1.00	to 1.50	1.00	to 1.50
MISCELLANEOUS				
Cattleya	to 10.00	to 10.00	to 10.00	to 10.00
Lyly of the Valley	to 4.00	to 4.00	to 4.00	to 4.00
Asters .....	.25	to 1.50	to 1.50	to 1.50
Vi let	to 1.00	to 1.00	to 1.00	to 1.00
Gladoli	to 2.00	to 2.00	to 2.00	to 2.00
Dahlias .....	.25	to 1.00	to 1.00	to 1.00
Lilies	12.00	to 15.00	to 15.00	to 15.00
Chrysanthemums	to 10.00	to 10.00	to 10.00	to 10.00
Adiantum Cuneatum	to 1.00	to 1.00	to 1.00	to 1.00
" Crowneum	to 1.00	to 1.00	to 1.00	to 1.00
Smilax	to 12.50	to 12.50	to 12.50	to 12.50
Asparagus Plumosa, string	1.1	to 50.00	to 50.00	to 50.00
" Sprenger, bunches	25.00	to 35.00	to 35.00	to 35.00

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NEWS NOTES.

C. W. Loomis of Northampton, Mass., now located on Jewett street, is to open a flower store in the Dewey block.

Sullivan & McGrath is the name of the firm succeeding the late Lucius H. Foster in business at 45 King street, Dorchester, Mass.

Charles Limmer, of the firm of Limmer & Evans, Schenectady, N. Y., has purchased the interest of his partner and will continue the business.

Otto Heffner has severed his connection with the Menlo Park Nurseries to take a position as head gardener at the Home of Peace Cemetery, Colma, Calif.

The Boston Ferns offered by W. W. Coles of Kokomo, Ind., in Horticulture, should prove attractive to those looking for splendid stock at low prices.

R. R. Raymoth, a graduate of the Massachusetts Agricultural College in the class of 1904, has recently opened an office for landscape gardening in Evansville, Ills.

Harvey D. Crosby, a graduate of the Massachusetts Agricultural College in the class of 1905, has just taken charge of the greenhouses on a large private estate in Thompson, Ct.

Austin Cary, A. B., professor of forestry, and R. P. Fisher, A. B., assistant professor of forestry, are among the recent appointments at Harvard College, Cambridge, Mass.

The Clinton Falls Nursery Co. has been organized at Clinton Falls, Mich., by T. E. Cashman, M. R. Cashman, J. R. Laughlin, W. H. Hart, J. A. Cieszenske, N. M. Cashman, Capital, \$150,000.

Carl Holm of Bridgeport, Conn., tree warden, was brushed from a ladder by a limb he had sawed off a tree and sustained serious injuries, from which it is feared he will not recover. He is about fifty-five years old, and is the author of several papers on entomology.

Mr. Conrad Appel of Darmstadt, Germany, whose card appears regularly in Horticulture, has enlarged his cleaning plant and appliances by the introduction of the latest systems. His seeds are tested in Dr. Stebler's International seed-testing office at Zurich, besides being examined in his own laboratory.

Mr. F. Canning, who spent the summer visiting his old haunts in England, recently told the horticultural class at the Massachusetts Agricultural College of his experiences there. He found some improvements had been made in the 15 years since he left England, but at the same time many of the old things appeared to him in a different light after having become acquainted with America. This was especially true of various horticultural practices. The great extent to which people of all classes in England live out of doors was particularly noticeable. The park work in various English cities was discussed and criticised at length. Mr. Canning found Sefton park in Liverpool especially at-

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Buy your supplies from the enterprising florist supply house:

J. STERN & CO.

1928 GERMANTOWN AVENUE, PHILADELPHIA.

Catalogue Free for Postal.

tractive in design. Other parks, though equally well kept, were not so pleasing in general conception. The use of wall for screens and for growing plants was specially commented on. The fine grounds at Hampton Court were described, and the remarkable perennial border especially commended.

DAGGER FERNS

Strictly fresh. A No. 1 quality
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 of interesting articles. May success
 be always with it.—A. F.

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And Decorative Plants

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 be always with it.—A. F.

List of Advertisers

Page	Page
Ammann Chas..... 412	McConnell Alex..... 426
Anderson Wm. H..... 412	McKusick, W. E..... 426
Aschmann Godfrey..... 427	McManus Jas..... 424
Baker Wm. J..... 422	Metropolitan Material Co..... 431
Barrow, H. & Son..... 427	Michell H. F..... 434
Bayer-dorfer H. & Co..... 427	Midland Cut Flower Exchange..... 425
Black, Chas..... 412	Milang Charles..... 425
Boak, W. J. & Co..... 427	Ming Frank..... 424
Boddington A. T..... 424	Monger J. C..... 431
Bonnet Bros..... 425	Mr. Hissack Nursery..... 426
Boston Floral Letter Co..... 426	Moschich J. H..... 425
Breck Joseph & Sons 414	Musser C. A..... 426
Breitmeier's S. J. Co. 425	Nielsen Leo Co..... 422
Budlong J. A..... 422	Peacock L. K..... 421
Burnham Hutchings	Peacock Samuel S..... 421
Pierson Co..... 439	Perkins John J..... 425
Purpee W. & Co..... 414	Phila. Cut Flower Co..... 423
California Rose Co..... 412	Pierce F. O. Co..... 421
Chicago House Wrecking Co..... 431	Pierson F. R. Co..... 421
Chicago Carnation Co..... 431	Pittsburg Cut Flower Co..... 425
Coles, W. W..... 427	Pye R. C..... 421
Cooke G. H..... 426	Rawson W. W. & Co..... 414
Cottage Floral Co..... 412	Raynor John L..... 424
Cottage Gardens..... 411	Reed & Keller..... 425
Dilger Wm..... 425	Reid Edw..... 423
Donohoe W. H..... 425	Reinberg Peter..... 425
Dreer H. A. & Co..... 425	Robinson H. M. & Co..... 425
Dumont & Co..... 423	Roehls Julius..... 427
Dysart R. J..... 411	Rohrer August & Son..... 412
Elliott Wm. & Son 412-421	Sander & Son..... 427
Euler J. G..... 425	Schlele Lumber Co..... 425
Ernest W. H..... 431	Schlegel & Fottler..... 425
Farquhar R. J. & J..... 414	Scott John A..... 421
Fletcher F. W..... 414	Se Bay John A..... 421
For Bros..... 424	Scott John..... 427
Forest Nursery & Seed Co..... 412	Sharp Partridge & Co..... 425
Framov W. & Sons..... 412	Sheridan W. F..... 424
Gormley W..... 424	Sievers J. H. & Co..... 411
Gray T. J. & Co..... 414	Siggers E. G..... 421
Gude A. & Bro..... 412	Situations & Wants..... 425
Gurney Heater Mfg. Co..... 426	Skidelsky S. S..... 427
Gutman Alex. J..... 424	Stern J. & Co..... 426
Hail Asso..... 430	Sutherland Geo. A..... 425
Hammond J. A..... 425	Suzuki & Iida..... 412
Hammond Paint & Stng. Snd Works..... 414	Thompson J. D. Co..... 411
Hanley Frank T..... 412	Thompson Walter..... 421
Heller & Co..... 414	Thorburn J. M. & Co..... 414
Hewes A. H. & Co..... 421	Tranley & Schenck..... 424
Hippard E..... 431	Troy, J. H..... 412
Hochdecker G. & M. J..... 427	Vaughan and Sperry..... 422
Hochle Castle Creek..... 424	Wahm M. H..... 417
Horan E. C..... 424	Ward Ralph M. Co..... 414
Hub Eng. Co..... 430	Watson G. C..... 412-423
Hunt E. H..... 425	Waugh..... 412
Igoe Bros..... 411	Weber H. & Sons..... 427
Kasting W. F..... 425	Welch Bros..... 422-427
Kervan Co., The..... 425	Werner & Risch..... 422
King Cons. Co..... 431	Wietor Bros..... 422
Klopper A..... 424	Wild Gilbert H..... 411
Koral Mfg Co..... 425	Wintner C. H..... 421
Lacer & Hurrell..... 427	Winterson E. F..... 422
Lang Julius..... 425	Young John..... 424
Leathy A. & Co..... 427	Young & Sargent..... 424
McCarthy N. F. & Co..... 425	Young Thos. Jr..... 425

Buyer's Directory and Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line.

Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARAUCARIAS.

H. A. Dreer, 714 Chestnut St., Philadelphia, Pa.

ASPARAGUS SEEDLINGS.

H. A. Dreer, 714 Chestnut St., Philadelphia.
Sprengert and Plumous manus.

ASTERS.

For Waugh, Amherst, Mass.
For page see List of Advertisers.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BAY TREES.

H. A. Dreer, Philadelphia.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
Bermuda Harrisil Bulbs.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H Square, Boston.
Bermuda Grown Harrisil and Freesias.

R. & J. Farquhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

Schlegel & Fottler Co., Boston.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Slevers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Holm.
For page see List of Advertisers.

Robert C. Pre, Nyack, N. Y.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

M. J. Shaaf, Danville, N. Y.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Wulterich, DeLancey, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atro, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

DRACAENAS.

H. A. Dreer, 714 Chestnut St., Philadelphia.

FERNs.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Wiltman, Mass.
Nephrolepis Barrowsil.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 81 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
For page see List of Advertisers.

S. S. Peacock, Philadelphia.
For page see List of Advertisers.

J. Stern & Co., 1925 Germantown Ave., Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Floral Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

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Best Flowers, Bulbs, Seeds and Supplies in the Country.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.

For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.

For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.

For page see List of Advertisers.

Wm. J. Boss & Co., Philadelphia, Pa.

For page see List of Advertisers.

GARDENIAS.

Charles Ammann, Yonkers, N. Y.

For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.

For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.

For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,

113 Broadway, New York.

For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.

For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.

For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.

For page see List of Advertisers.

Klug Construction Co., N. Tonawanda, N. Y.

For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk

St., Chicago.

For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and

Hawthorne Ave., Chicago, Ill.

For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,

Boston.

For page see List of Advertisers.

The Kervan Co.,

20 W. 27th St., New York.

For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami

Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.

For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,

113 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,

Brooklyn, N. Y.

For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,

Boston.

For page see List of Advertisers.

Walter Thompson, 2195 Boulevard,

Jersey City, N. J.

For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,

New York.

Plants tender or hardy.

For page see List of Advertisers.

R. M. Ward & Co., New York.

Plants and Bulbs.

For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., New York, N. Y.

For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.

For page see List of Advertisers.

NICO-FUME.

Kentucky Tobacco Product Co.,

Louisville, Ky.

NURSERY STOCK.

Mt. Hissarlik Nursery,

New Rochelle, N. Y.

For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.

For page see List of Advertisers.

Sander, St. Albans, England.

Importers, Exporters, Growers, Hybridists.

For page see List of Advertisers.

Geo. & M. J. Hochberf, Tucson, Ariz.

For page see List of Advertisers.

PAEONIES.

Gilbert H. Wild, Sarosvie, Mo.

For page see List of Advertisers.

George Hollis, S. Weymouth, Mass.

Chicago Carnation Co., Joliet, Ill.

For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.

For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Kleuer, Wauwatosa, Wis.

For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.

Pansies, Daisies, Forget-Me-Not, Geraniums.

For page see List of Advertisers.

Cottage Floral Co., Cleveland, O.

Rooted Cuttings Ageratum, Coleus, Helio-

trop, Geranium.

For page see List of Advertisers.

PLANTS FOR JARDINIERS.

Charles Ammann, Yonkers, N. Y.

Ivies, Eucalyptus, Aquatics.

For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.

For page see List of Advertisers.

H. A. Dreer, 714 Chestnut St., Philadelphia.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.

Ponies and Phlox.

For page see List of Advertisers.

RETAIL FLORISTS.

Alex. McConnell, New York.

For page see List of Advertisers.

Thomas Young, Jr., New York.

For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York.

For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.

For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.

For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,

Washington, D. C.

For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.

Hardy Roses, H. T. Roses and Ramblers.

August Rolker & Sons, 31 Barclay St.,

New York.

English-Grown Roses.

For page see List of Advertisers.

Benj. Dorrance, Dorranconet, Pa.

Killarney and Richmond.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.

For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil

Hall Sq., Boston.

Cydonian Seed.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,

Boston.

For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.

For page see List of Advertisers.

J. M. Thorburn & Co.,

36 Cortlandt St., New York.

For page see List of Advertisers.

Forest Nursery & Seed Co., McMinnville,

Tenn.

Forest Tree and Shrub Seeds.

For page see List of Advertisers.

SEEDS—Continued.

G. C. Watson, 1614 Ludlow St.,

Philadelphia.

Sweet Pea Christmas.

For page see List of Advertisers.

H. F. Michell Co., Philadelphia.

Cyclamen Seeds.

For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, 1-10-1879.

10th Grade Grass, Clover, and Tree Seed.

SOUTHERN WILD MILAX.

H. M. Robinson & Co., 8 & 11 Province

St., Boston.

For page see List of Advertisers.

STEAM TRAP.

E. Hppard, Youngstown, O.

For page see List of Advertisers.

TEXAS MISTLETOE.

Wm. H. Anderson, Brownwood, Texas.

For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,

113 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,

Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,

Chicago.

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-

ton.

George A. Sutherland Co., 34 Hawley St.,

Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Easting, 383-87 Ellicott St., Buf-

falo, N. Y.

Chicago.

For page see List of Advertisers.

J. A. Budington, 37 Randolph St., Chicago.

E. H. Hunt, 76-78 Wabash Ave., Chicago.

Chas. W. McKellen, 51 Wabash Ave., Chicago.

Peter Keimberg, 51 Wabash Ave., Chicago.

A. L. Randall, 61 Randolph St., Chicago.

Welding & Kisch, 50 Wabash Ave., Chicago.

Victor Bros., 51 Wabash Ave., Chicago.

Vaughan & Sperry, 90 Wabash Ave., Chicago.

E. F. Winterson Co., 43, 47, 49 Wabash

Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.

Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40

Miami Ave.

New York.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 26th St., New

York.

Ford Bros., 48 West 28th St., New York.

Wm. Gormley, 67 W. 28th St., New York.

Alex. J. Gutman, 43 West 28th St.

Jas. A. Hammond, 113 West 30th St., New

York.

E. C. Horan, 55 West 28th St., New York.

Julius Laing, 53 West 30th St., New York.

James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.

Frank Millang, 55-57 W. 26th St., New

York.

John J. Perkins, 115 W. 30th St., New York.

John L. Raynor, 49 W. 28th St., New York.

W. F. Sheridan, 59 W. 28th St., New York.

Trendly & Schenck, 44 W. 28th St., New

York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-

delphia, Pa.

Dumont & Co., Philadelphia.

W. E. McKissick, 1614 Filbert St., Phila-

delphia, Pa.

Leo Nissen Co., 1217 Arch St., Phila-

delphia, Pa.

S. S. Penneck, 1612-18 Ludlow St., Phila-

New Offers in This Issue.

BOSTON FERNS.

W. W. Cokes, Kokomo, Ind.
For page see List of Advertisers.

CARNATIONS.

Rooted Cuttings Variegated Lawson.
H. A. Stevens Co., Dedham, Mass.
For page see List of Advertisers.

DAGGER FERNS.

C. A. Musser, Dolohostown, O.
For page see List of Advertisers.

DENDROBIUM PHALAENOPSIS SCHROEDERIANUM.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

FIELD-GROWN ROSES.

California Rose Co., Los Angeles, Calif.
For page see List of Advertisers.

MUSHROOM CULTURE.

E. C. Watson, Philadelphia.
For page see List of Advertisers.

LEADING RETAIL FLORISTS.

Julius J. Zinn
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

EXPORT OF BULBS FROM CHINA.

The indications are that the record of shipments of narcissus or "sacred Chinese lily" bulbs for the United States will be exceeded this year. Fifty tons went out of Amoy in one vessel bound for the United States last week, and the next steamer for the Pacific coast is to take a similar shipment. The prospects are that there will be at least \$35,000 worth of these bulbs shipped to the United States this year, exceeding the ordinary record by perhaps \$5,000. Practically all of the narcissus bulbs exported from China go from Amoy, and at least three-fourths of these go to the United States.

The bulbs are raised in the Chang Chow district, about 30 miles inland from Amoy. The flowers are popular among the Chinese, having more or less of a religious significance, although nothing like the significance commonly believed in the United States. The extent to which they have come to be sold in the United States can best be realized when the volume of exports from the producing district is realized. In 1902, 1,600,000 bulbs were exported; in 1903, 2,348,000; in 1904, 2,620,716, valued at \$35,627. The exports this year will probably reach \$45,000.

A considerable trade in Easter lily and calla bulbs might be built up between Amoy and the United States. The bulbs can be produced here at a minimum price. On the hills hereabouts, especially up country near where the narcissus bulbs are produced, the lilies grow wild. Sometimes an entire hillside will be covered with them. The climate seems to be peculiarly adapted to their growth, and in addition to this the cheapness of Chinese labor affords other advantages. The Chinese use calla and Easter lily bulbs for medicinal purposes.—From report of Consul Andersen, Amoy.

We might add to the above the interesting information that large quantities of lily bulbs are exported from China to the Chinese in this country for use as food, the variety most largely consumed being *Lilium Brownii*.

SEED TRADE NOTES.

Dealers in seed potatoes are somewhat anxious. The York State crop is undoubtedly badly affected by rot, and more or less authentic reports to the same effect come from Michigan and Wisconsin. On the other hand, the Maine crop is said to be above average, and reports of rot have as yet come from there. The real situation will no doubt develop within the next two or three months.

Longiflorum lilies are in the hands of the jobbers, and orders are being rapidly filled. Growers who have given individual orders for Dutch bulbs to the Holland salesmen have not yet received their goods, which goes to show that after all it is better for florists to buy their bulbs through their local importers at a very slight increase in cost and be sure of getting them and having them early, too.

The seed trade is once more turning its attention from bulbs to seeds, and the conditions which confront them are a surprise to many. There are two classes of people in this world, one that runs at the first cry of "wolf," and the other which refuses to believe there is any wolf until the wolf is on them. It is just so in the seed trade; one class is thrown into a panic at the first cry of shortage, and imagines there is going to be a famine, while the other stubbornly refuses to believe in any shortage until the evidence is overwhelming. For months past it has been common knowledge that Onion seed was a very short crop, and while a few have believed prices would reach absurdly high levels, many others insisted that there was "plenty of seed." It is now rapidly dawning on this latter class that the cry of shortage was no airy fancy, but a hard fact, and they now regret their lack of judgment in failing to cover their shortages as they could easily have done only a few weeks back. As far back as early last summer it was stated in these columns that the heaviest shortages would be in the Southport Globe varieties, red, white and yellow, and conditions at this time amply justify that prediction. It is now next to impossible to procure any of these three varieties excepting at prohibitive prices. Yellow Globe Danvers have already sold at a higher price than many believed possible at any time the coming season. Yellow Strasburg and Yellow Round Danvers have also advanced sharply in the past few weeks, and Red Wethersfield and Early Red Flat will soon follow suit. Altogether the onion seed situation is very gratifying to those who have seed to sell. Beans promise to be the next surprise, and those who are short will do well to get under cover.

CATALOGUES RECEIVED.

E. Y. Teas, Centerville, Ind.—Wholesale price-list of nursery stock.

Samuel Smith, Slaghtills Nursery, Derbyshire, Eng.—Catalogue of trees, shrubs, herbaceous and alpine plants.

Anton Schulteis, College Point, N. Y. Wholesale price-list for season of 1905-'06. Distinctly a florists' catalogue; the only one that has come to us devoted exclusively to plants for commercial florists' use.

WANTS.

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PUBLIC DOCUMENTS RECEIVED.

Quarterly report on commercial fertilizers and chemicals by the Georgia Department of Agriculture. Issued under the supervision of Hon. T. G. Hudson, Commissioner of Agriculture of the State of Georgia.

LIST OF PATENTS.

Issued October 10, 1905.

- 801,325. Tree Guard or Protector. Frederick Lichtfeldt, Milwaukee, Wis.
- 801,396. Grass-Catcher for Mowing Machines. Ralph J. Parrish, Winston-Salem, N. C.
- 801,765. Weeder. George S. Carson, Iowa City, Iowa.

The Andorra Nurseries is sending out a dainty colored circular of berried shrubs. Their new fall trade list is especially full and complete this year.

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Vol. II.

OCTOBER 28, 1905

No. 18



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HORTICULTURE

VOL II

OCTOBER 28, 1905

NO. 18

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Tritoma Pfitzeri		NEW TRITOMAS AND OTHER RIVERTON SPECIALTIES—G. C. Watson—Illustrated.....	445
EARLY CHRYSANTHEMUMS AT CRYSTAL PALACE—C. Harman Payne.....	439	OUT OF THE GINGER JAR—G. C. W.....	446
BRITISH HORTICULTURE—W. H. Adsett.....	439	CRISP CHATS WITH SUCCESSFUL BUSINESS MEN	446
THE IRIS—George Moore.....	440	CUT FLOWER MARKET REPORTS	
WATER LILIES—William Tricker.....	441	Boston, Buffalo, Chicago, Louisville, Newport, New York, Philadelphia.....	449
EDITORIAL	442	SEED TRADE.....	454
AFTER ADJOURNMENT	443	MISCELLANEOUS	
OUT OF THE BEAN POD—Thos. F. Matthews.....	443	Obituary	443
NEWS OF THE CLUBS AND SOCIETIES		Personal	443
Des Moines Florists' Club.....	444	New Chrysanthemum Rosiere.....	443
Newport Horticultural Society.....	444	San Francisco Notes.....	446
French National Chrysanthemum Society.....	444	Park News.....	446
Society of American Florists.....	444	Catalogues Received.....	446
Toronto Gardeners' and Florists' Society.....	444	List of Patents.....	449
Paris Chrysanthemum Show.....	444	News Notes.....	449
Chrysanthemum Society of America.....	444	Business Changes.....	449
Miscellaneous News	444	Greenhouses Building or Projected.....	454

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MICE
PROOF
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Early Chrysanthemums at the Crystal Palace

The National Chrysanthemum Society of England held its early show at the Crystal Palace, Sydenham, on the 4th of October last, when a convention of growers was also held to discuss certain matters relating to these varieties which are much appreciated in England at the present time. Although there were many other things shown we can only notice the best exhibits of the early flowering chrysanthemums as they were the main feature of the show.

Mr. William Wells of Earlewood had a handsome group of plants grown in the open ground, most of them large sized Japanese, very effective in color and compactness of growth. Carrie, a charming yellow variety, was one of the best. Jason, a recent French seedling, was another. Pollie, a large reddish orange colored variety, also made an excellent display. A noteworthy feature of Mr. Wells' exhibit was the entire family of the Massee group. This comprised free flowering plants of the parent Mme. Marie Massee and the following sports, viz., Crimson Massee, Ralph Curtis, Robbie Burns, Horace Martin, Wells' Massee, Mrs. Baird and George Bowness—one of the latest—a pretty shade of crushed strawberry. Harrie, a novelty of deep reddish orange, was awarded a first-class certificate. Goacher's pink also gained a like distinction.

Mr. R. H. Bath showed a handsome group composed almost entirely of French varieties. Chief of these were Fleuve rouge, crimson; Flambeau, fiery red; Fée Japonaise, white with yellow centre; Perle Rose, Ernest Baltet, Rubis, De la Guille, Champ d'or; Le pactole, one of the largest and most beautiful in color, a rich orange chestnut with golden reverse.

Mr. W. Sydenham showed a collection of hardy border chrysanthemums composed mostly of well known standard sorts. We specially noted good bunches of Harvest Home, Ambrose Thomas, Horace Martin, Parisiana, Queen of the Earlies, Carrie, Roi des Blancs, and many others.

Messrs. H. E. Cannell & Sons of Swanley also had a capital collection. Mme. Marie Massee, Louis Le-maire, Goacher's Crimson (very fine), Bronze Massee, Perle Rose, Etoile Blanche were among the number.

Mr. H. J. Jones, another well known specialist, put up a most attractive table of grand michaelmas daisies and early chrysanthemums. The best were Sydney Peto, a good yellow; Pollie, Horace Martin, Maxim, Fire Fly, Hilda Blick, etc.

Mr. Norman Davis, one of the oldest cultivators of the early section, had a most artistic circular group. Michaelmas daisies and early chrysanthemums were arranged with most artistic effect. Roi des Blancs, La Parisienne, Rubis, Carrie, Perle Rose, Rabelais, Rosie, Beacon, were the best of the chrysanthemums.

Mr. Eric Such of Maidenhead is another big grower. He, too, set up a fine display containing most of the varieties previously mentioned.

THE CONVENTION

At 3.30 on the afternoon of the first day of the show in the King's Room there was a large gathering of growers and amateurs. The meeting was presided over by Mr. Thomas Bevan.

Mr. Harman Payne read a paper on "The History of the Early Flowering Chrysanthemum" in which he traced its progress from the earliest times to the present.

Mr. Eric Such read a paper on market varieties, pompons, singles and Japanese being dealt with. Special details as to culture, etc., were given and the following recommended:

Mytchett White, Market White, White Marie Massee, Queen of the Earlies, Roi des Blancs, Champ de Neige, La Parisienne, White Pet, Boule de Neige, and White Quintus are splendid pure white varieties for early October.

Autumn Sun, Miss B. Miller, Mytchett Beauty, Ethel Mitchell, Yellow Prince, Lemon Queen, Market Yellow, Sunshine, Horace Martin, Maggie and Miss Ruth Martin are good yellows.

O. J. Quintus, Gustave Gunnerwald, Mrs. J. R. Pitcher, Mytchett Pink, Reyeroft Pink, Blushing Beauty, Mde. Marie Massee and Mde. C. Perrier, rank foremost among the pinks.

Goacher's Crimson, Crimson Marie Massee, Roi des Precoces, Market Red, Jules Mary, Mina Blick, Nelly Blake, Harvest Home, Black Prince Gaspard Boucharet Improved are crimson varieties of real merit.

Other first-class varieties include:—Mde. E. Morel, salmon; Orange Pet and Orange Massee, orange; Coral Queen, coral-pink; Claret Bell, crimson; Arthur Crepey, primrose; Gladys Irene Harkness, crimson; Maggie McLeod, orange shaded red centre.

Mr. Moorman of Victoria Park read a paper on early varieties for town gardens. Discussion ensued after each paper was read and great interest was taken in the whole proceedings.

At 6.30 a second sitting of the convention took place. Mr. E. H. Hawes gave his experience with earlies in town gardens. Mr. George Gordon discoursed upon the decorative value of earlies and Mr. D. B. Crane discussed their value for culture in the garden.

Harman Payne

British Horticulture

THE AUTUMN NURSERY SALES

The leading auction sales at the nurseries around London have lately been completed. Large quantities of first-class stuff were on offer, and these received good attention from a big muster of London and provincial buyers. It was anticipated that the depressed state of trade during the past season would have left its impress, but this proved groundless. As a rule the lots sold remarkably well, excellent prices being maintained, and in most cases in advance of those of last season. At the sale of Messrs. H. Evans & Sons, formerly Messrs. Gregory and Evans, at Sidney in Kent, some 40,000 winter-flowering heaths, 20,000 solanums, besides roses, ferns, genistas, bouvardias, etc., were disposed of. *Erica gracilis* in 48's sold at an average of 6s. per dozen, and in 40's at 7s. 6d.—a high figure; *E. hymenalis* in 48's 6s. 6d., and 40's 9s. a dozen, and other varieties in this section realized equally satisfactory prices. Bouvardias in 48's sold at 4s. a dozen, and the same price was paid for some well-berried solanums. A fine lot of roses in 32's average as follows: W. A. Richardson, 9s.; Gloire de Dijon, 9s.; Morelbal Niel, 10s.; Crimson Rambler, 10s.; Dorothy Perkins, 12s.; Chestnut Hybrid, 12s.; L'Idéal, 12s.; Climbing Niphetos, 12s.; Reine Marie Henriette, 9s. a dozen. Some specimen plants of white azaleas sold at 28s. to 30s., and genistas in 48's realized

4s. 6d. a dozen. Boronias of exceptional merit made from 8s. to 12s. a dozen. The lots were principally bought for the Covent Garden trade. Unless prices in the future show a material improvement on the market the purchasers will not receive any margin of profit, after allowing for the expense of carting, growing on, and delivering at Covent Garden. The nurserymen who have been holding these sales are certainly on the right side, for they have made good prices without running the risk of facing the constant fluctuations of the open market. There have been general complaints of the unusual slackness of business in the floral line this season.

EARLY CHRYSANTHEMUMS

The show of early varieties, arranged by the National Chrysanthemum Society at the beginning of October, was the best exhibition of the kind held in this country. It indicated that the cult of the chrysanthemum is increasing in popularity in Britain, thanks to the efforts of the Society and of Messrs. Cannell, Jones, Davis, Godfrey, Wells and other leading trade growers. The fame of Mr. Wells of Merstham is well known in the United States where he numbers several customers. There were not many novelties exhibited for certificates; the list will probably be more extensive at the next show in November. Mr. Wells' new introductions were Goacher's Pink, a floriferous variety which is seen to advantage early in September—its habit resembles the well-known Goacher's Crimson—and Harry, a dwarf free-flowering variety, with blooms of a reddish crimson tint. Messrs. R. H. Bath, Ltd., of Wisbech, had a new bloom of the decorative type, named Perle Chailonnaise. This has medium sized flowers of a salmon-buff hue. Mr. H. J. Jones, of Ryecroft Nurseries, Lewisham, who has put a large number of useful varieties in commerce, showed Money-maker—an appropriate name for a market variety—with pure white blooms, and Maxim, a decorative "mum" with reddish crimson tinted blooms. Each of these new-comers received a certificate from the Society.

AN HISTORICAL REVIEW

The conference held in connection with the exhibition proved a very popular feature of the proceedings. Amongst the papers read was one by Mr. C. Harman Payne, throwing considerable light on the origin of the early-flowering varieties—a subject to which little attention had hitherto been given. Mr. Payne defined an early flowering variety as referring to that section of chrysanthemums descended from *C. indicum* or *C. sinense*, which, grown in the open-air, will bloom without disubbling before the ordinary exhibition varieties come into flower. Going back to the year 1850 Mr. Payne referred to the distribution by M. Miellez, of Lille, of some varieties that bloomed in the beginning of August, and others that followed in September and October. It is not until two years later than any record can be found of the first early-flowering chrysanthemum making its appearance in England. About the same time M. Lebois and M. Pele engaged in the work, and raised many novelties, both of the ordinary November flowering and the Pompon type. In 1852 a description of a new early variety named Hendersoni was published and this the first of its kind was followed by Annie Henderson, a dwarf variety of bright canary yellow, blooming in the month of August. Some of the earliest growers, to take up the new race were Messrs. E. G. Henderson and Son, Mr. John Salter, Mr. Samuel Broome, Mr. John Dale. As far back as 1858 Mr. John Broome,

in his treatise, under the heading of "Summer Flowering Pompons," gave a selection of thirteen varieties, the majority of which bore French names.

W. H. Adsett.

London, England.

The Iris

In consequence of the introduction of the new Japanese species, the old-fashioned flag family is now coming to the front, and will take its place among the most beautiful decorative flowers.

The Iris is interesting as a flower, being the type of the great natural order Iridaceae. The generic name of the iris family is derived from that of the rainbow, probably because all its colors are represented in its numerous species and varieties. The yellow iris or water flag abounds in the shallow waters and streamlets of Great Britain and the continent of Europe; it is naturally a semi-aquatic, requiring water for its growth, but sunshine to bring its golden blossoms to perfection. On the contrary the *I. Germanica* requires dry, warm soil but with sunlight also.

One of the advantages that the iris possesses is that it is so easily grown, requiring no more care than any ordinary vegetable crop and is as suitable to the garden of the cottager as it is to the flower garden of the millionaire. In large establishments the iris is acceptable on account of the succession of flowers the various species afford during the summer season. *I. Persica* and *pumilla*, dwarf growing species with intensely bright purple and light blue flowers, commence the procession. These are followed by the Siberian iris which is in direct contrast to them, as to habit of growth; it has tall, slender leaves and flower stems and its flowers are numerous and beautifully colored. They may be described as violet blue veined with white. The plant grows in clumps and does not like to be disturbed by transplanting; indeed that is the case with all but the bulbous species and it is better, when a new plant is wanted, not to dig up the clump to separate it, but to cut off a portion with a sharp spade. The Spanish iris is a great favorite in the flower markets of London and Paris and deserves more attention from American florists.

The Japanese are no more celebrated for their prowess in war than for their advancement in the arts and tastes of peace, and it should be a matter of gratitude to the great Supreme Ruler of events that the United States and its noble President have been made instrumental in putting a stop to the late bloody and disastrous conflict. As to floriculture it is doubtful whether, in some respects, the Japanese are not at the head of the class. They certainly perform feats of horticulture which have not been attempted by western horticulturists, and, beside this, have given us examples of taste in the natural arrangement of floral decorations which we may copy with advantage. Following the course of Nature, they do not crowd their cut flowers into bunches which we call bouquets, but place them in such position as regards each other as to show the beauty of each individual. The final touches are what give effect to the whole, and it is in close attention to these details that the true artist excels. I have, it may seem, digressed

from my subject but my reason for doing so is that to this style of decoration the new Japanese iris lends itself in a remarkable degree; these with the English and Spanish varieties are airily poised upon their slender stems, and when each flower is duly kept separate from its neighbor the effect is most desirable and beautiful. The English iris comes near to the Spanish in form and beauty and flowers late in the season. The chrysanthemum and iris are the regal flowers of Japan as their paintings exemplify. They evidently, in Japan, know well how to cultivate them to perfection, and to render them effective by artistic arrangement when used for decorative purposes.

All the iris tribe require rich, mellow soil, but are tenacious of fresh manure. The species with rhizomes, especially, require good feeding and rather dry sods; the bulbous species take less nourishment but require moisture to their roots but suffer in bleak, cold situations. To the florist the irises in their narrow groups present excellent opportunities to the grower and floral decorator. To the plant and flower breeder they offer a wide field of operation. If the rich colored and orchid-like flowers of the Kämpferi were crossed with the Spanish, English or German some new and startling results might be produced.

God Moore

Quebec, Canada.

Water-lilies

The frontispiece of HORTICULTURE October 7, 1905, is a handsome illustration of Victoria Tricker as grown in the open air in the latitude of Philadelphia. It is a fitting memento of a very successful season in aquaculture, demonstrating again the practical use of tropical water-lilies in the eastern latitude. It is not wonderful to report such success from St. Louis, but here such an achievement is noteworthy. Truly the seasons have very much to do with it, but this has not been an exceptional hot season, rather would we say the season was normal.

Conditions as to culture, soil, planting, etc., have been given from time to time but with all the literature nothing is more forceful than the accomplished fact which such illustration truthfully depicts. The nymphæas are not clearly defined in the illustration but they have been much in evidence, especially at Newport and Boston where the horticultural societies were proud to do them honor.

Amongst new nymphæas mention may again be made of *N. dentata* magnifica. There are several forms of this grand white night-flowering nymphæa but *N. d. magnifica* outstrips them all. In the species the sepals and outer petals droop especially after a shower and the flower has a thin or ragged appearance, but with *N. d. magnifica* the flower is more cup-shaped, the sepals and petals do not droop, but maintain a bold and rigid form not unlike *N. Sturtevantii*. *N. Bissetii* is a greater acquisition than *N. d. magnifica* and surpasses *N. O'Marana* and *N. Sturtevantii*. In color it is more like *N. Sturtevantii* but there is more tone and depth of color and the plant is very free flowering. The large massive flowers are of perfect form and stand well above the foliage.

These grand water-lilies to be grown successfully must have liberal culture and ample space for leafage.

All night-blooming water lilies require similar treatment to obtain first-rate flowers such as have been seen at exhibitions the past season. The plants require to be started ahead of the day-flowering nymphæas and strong plants must be secured by planting on time.

Novelties are apparently scarce in this line but amongst night-blooming nymphæas there are but two or three colors and to make a trio of distinct and superb varieties I would add *N. George Huster*, a rich growing crimson.

Day-flowering tender nymphæas present a wider field with an extended range of color and very pleasing and attractive flowers. These are very popular flowers in the United States, but are comparatively little known in England. It is singular to note that such a variety as *N. Zanzibariensis* rosea should be considered as a new water-lily and given a first-class certificate by the Royal Horticultural Society as recently as last August. Undoubtedly it was well grown and reflects credit on Mr. Dye, gardener to Lord Rothschild, but this same nymphæa was equally as well grown in the United States 15 years ago. A much more desirable nymphæa of similar color is *N. Mrs. C. Ward*, a hybrid of *N. gracilis* and *N. Zan. rosea*.

Nymphæa Pennsylvania of recent introduction is a most beautiful blue water lily, and has many good points; it is the largest flower of any of the day-flowering tender nymphæas, as large as many of the night-blooming varieties. The color also is the richest, but not so deep as *N. Zanzibariensis*, which by the way is one of its parents and like this species the flowers are late in the morning before opening, but although late in opening, the flowers remain open later in the day, but in a collection that opens early in the day a laggard is not always excused.

N. pulcherrima is probably the best of all blue nymphæas, all things considered, and should be included in all collections. It has made a great impression amongst flowers in England and have received many commendations from the Royal Horticultural Society. There are a number of blue water lilies, in fact this section or group is largely represented by blues; only two pinks and one white. There are species of various tints of little value commercially but would prove of immense value to the hybridist. We need an improved white very much more than a white night-blooming variety, also various pinks to crimson, also a yellow. Here is a rich field for investigation and research and much in store for lovers of water-lilies, especially the hybridist.

While, on the whole, the season has been most satisfactory there are those who from lack of experience and congenial conditions have failed in the attempt to produce anything like satisfactory results.

A frequent source of failure is the attempt to have a water display and flowering plants at one and the same time. Water-lilies look well in fountain basins, but if the fountains must be kept running the lilies will suffer and especially so if the water is cold and spring water. The latter running into a pond or pool will lower the temperature so that even hardy nymphæas will not grow. Notice our native water-lily haunts, they are mostly in ponds of still water and exposed to the full sunshine. To the unsuccessful I would say, try again.

Wm Tricker

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, *Editor and Manager.*

Gypsy moth not local

The work of combating the gypsy moth has now reached a magnitude where it should have the aid of the national government. The time has come when Congress should take up the subject seriously, for the infiction is no longer local neither can it be suppressed by local effort. Procrastination only makes the undertaking greater and vastly more costly. The menace is not understood or realized by those remote from the present field of destruction. Later on there will be a rude awakening.

The artistic quality of floral exhibitions

Overcrowding is an almost universal defect in the arrangement of exhibits at our flower shows. In the great exhibitions which are about to open the managers have the opportunity to introduce a great reform in this respect, particularly in the cut flower section. It is to the public that we must look for the financial support necessary to maintain these affairs and general effect has much more influence with the public than scales of points and other technical considerations that appeal especially to the craft. A table of chrysanthemum blooms crowded so closely together that they touch, each group distinguished from its neighbor only by a pencil mark across the table, may, or may not, display to the initiated cultural excellence in a high degree but to the public eye it is only a mass of flowers with no claim to notice except its quantity and to the artist it is but a crude and meaningless conglomeration, an altogether uninviting and uncouth array. The lamentable absence of taste in arrangement of many floral displays forces the visitor to make comparisons with exhibitions in other lines of industry by no means advantageous to the horticulturist.

Growth of the private greenhouse

When Cowper sang, over one hundred years ago, "Who loves a garden loves a greenhouse too," he stated a self-evident truth. There may be a few exceptions—we have heard of such—garden-lovers who in their enthusiasm for the garden

as they would have it, deery everything but their own ideal, but a flower is a flower and an assembling of flowers and verdure is, to most of us, a garden whether under open summer skies or beneath protecting glass while winter rages outside, and, in the latter case, possibly more of a delight because of its contrast with the bleakness without. The greenhouse of Cowper's day must have been a crude affair as compared with the well-proportioned, iron-ribbed crystal structure now so familiar. The enormous, annually-increasing business being done by the greenhouse building concerns is the American people's response to these firms for their successful efforts to produce glass structures not only of the highest utility but architecturally elegant in proportions and plan and an ornament to their place. The number of private conservatories is bound to increase enormously, thus opening up new fields for the well-trained gardener and an enhanced demand for commercially grown plants in great variety with which to stock these houses. The outlook is indeed encouraging.

Gardening— the florists' opportunity

At last Jack Frost wins out and gardens are blighted and defaced. From a certain business standpoint the florist will doubtless welcome the passing of the unusually long and salubrious autumn. No longer will the lavish product of the garden stand in the way of adequate remuneration for his activities under glass. But he is not a true horticulturist if, with it all, he does not experience a twinge of regret as he sees the outdoor loveliness vanish. American horticulture is now shaping itself, however, so that the exotic flower and fabrications thereof are no longer to hold an exclusive or even pre-eminent place in the florists' art. The love for growing plants for indoor and outdoor enjoyment is rapidly extending and he who would serve the public in their broader horticultural appreciation must perfect himself in garden craft. It is safe to say there is abundant room for improvement for, judging by the examples that we see, garden art is with us, still in the kindergarten stage. A manifest lack of fitness pervades it wherever we go. How many gardens there are, elaborately laid out, well-cared for, each plant and tree a gem in its way, and yet the master touch, needed to bring the scheme into full harmony with its environment, is lacking. Few of us have the talent to enable us to say why this or that feature is wrong and still fewer are they who can prescribe the remedy—we simply know that the picture is, at best, incomplete. For the florist, imbued with the true horticultural spirit, the quest will be a fascinating one and he is the man above all others who should find the key.

"Accuse not Nature; she hath done her part;
Do thou but thine."



AFTER ADJOURNMENT.

In the October 5 issue of the Journal of Horticulture we see *Nephrolepis* Piersoni referred to as "hybrid fern or presumed hybrid." Where did our esteemed contemporary get this idea? N. Piersoni is a sport from one of the many varieties of *N. exaltata*, known here as *N. exaltata Bostoniensis*.

We learn from the Pall Mall Gazette that "New York is as fond of violets as London, and thousands of bunches are sold at the street corners. The lighter color prevails, and the scent with which the violet of the old country flower is redolent does not distinguish its transatlantic cousin." This will be surprising reading to the average New Yorker, who takes pride in the fact that his market revels in an abundance of the finest Marie Louise violets in the world and turns its nose high up at anything inferior to this in either color or fragrance.

Antoine Wintzer of the Conard & Jones Co. sends us a box of freak canna flowers. One is fringed oddly, like a petunia; another is of a color unidentified in the color charts, another resembles a bunch of scarlet rags; and one, a seedling from Buttercup, is not unlike a Von Zion daffodil. Referring to Mr. Moore's recent contribution to Horticulture on the subject of "Freaks," Mr. Wintzer assures us that Conard & Jones Co. are not working on that line, but that they get a lot of these grotesque monstrosities every year in the course of their hybridizing, so that California has not a monopoly on freaks of nature.

Mr. F. G. Waterer of John Waterer & Son, Bagshot, England, has been visiting Boston, for the purpose of investigating conditions and possibilities as a market for rhododendrons. Mr. Waterer informs us that his establishment and facilities have recently been increased, so that an output of 100,000 rhododendrons annually will now be possible. It is his purpose to make annual trips to America hereafter. In hybridizing for new varieties, Mr. Waterer is working back on maximum, with some of the best of the older hybrids, aiming to produce varieties of unquestioned hardiness, with the bright colors that have hitherto been restricted to sorts unreliable in this climate.

A CORRECTION.

In G. C. Watson's notes on dahlias, in issue of Oct. 21, read under "Kreimhilde" pointed petals instead of "pink petals," and under "Buttercup" read quantity instead of "quality."

PLEASE, WHEN YOU WRITE TO AN ADVERTISER

Always begin your letter with the words: "I saw your adv. in Horticulture." It will bring you a prompt reply and liberal treatment.

OBITUARY.

Joshua C. Stone, aged 76, died on Sunday last at his home in East Watertown, Mass., after a long illness. He conducted an extensive market gardening farm, and was an active member of the Market Gardeners' Association and of the Massachusetts Horticultural Society. He leaves three sons and two daughters.

Our English contemporaries chronicle the death of James Dobbie, who in 1865 founded the house of Dobbie & Co., Rothsay, which has come to be one of the foremost houses in that country, and is a familiar name to all horticulturists on this side. Mr. Dobbie's success was largely due to his originality and to developing and improving exclusive lines of plants and flowers.

Duane H. Nash of Millington, N. J., was killed at the railroad crossing near his home on October 6. He attempted to cross the tracks and being afflicted with partial deafness did not hear the approaching express train. Mr. Nash was familiar to the readers of agricultural papers as the manufacturer of the Acme harrows. He was widely respected as a citizen of highest character. His brother, S. C. Nash, of Clifton, N. J., is well known to the florist trade as a rose grower; to him we extend heart-felt sympathy.

PERSONAL.

Wm. R. Nicholson was married to Miss Florence Goodell at South Framingham, Mass., on October 18.

Wm. A. Black, who has been at Shadow Brook Inn, Lenox, Mass., all summer, goes, Nov. 1, to take charge of C. A. Mills' store at Jacksonville, Fla., and later to Palm Beach and the "Royal Palm" hotel at Miami.

Miss Amy K. Luffman, formerly of Birmingham, Ala., who has been with H. Koropp, Chicago, during the past season, has accepted a position with Miss Rose Wright at Spokane, Wash. Miss Luffman has many friends in the east whose cordial good wishes will follow her to her distant new home.

Myron H. West of Belchertown, Mass., has been appointed as assistant superintendent of Lincoln Park, Chicago. He is a graduate of the Massachusetts Agricultural College, class of 1903. For the past year he has been chief engineer of Keney Park, Hartford, Conn.

"WE COVER THE COUNTRY."

Gentlemen:

As a result of our half-page advertisement in last week's HORTICULTURE, we have received a large order from Texas, with the foot note "I saw your advertisement in HORTICULTURE." WELCH BROS.

Boston, Oct. 24, 1965.

A. C. Burrage, the Standard Oil magnate, has recently bought about 3000 acres of land in Halifax, Mass., on which six large greenhouses have been erected, and two more are nearly completed, making a total of 100,000 square feet of glass. Cucumbers and lettuce will be raised in them as a starter.

OUT OF THE BEAN POD.

Through the kindness of Thomas Capers of Highlandville, I was enabled to enjoy a very pleasant drive recently, and called on several of our foremost carnation growers. At Mr. Capers' I saw a set of exceptionally fine Queen. I failed to learn that these plants had received any different treatment than the other varieties, but should judge that the soil, which is virgin soil of good fibre, was particularly suited to them. Mr. Capers had a novelty in the tri-color geranium line, recently imported by him from England. At John Barr's in South Natick, I found the carnations to be a trifle late, but a good crop for Christmas is Mr. Barr's aim. A lot of fine cyclamens occupied one house. These have been grown in a shaded house, kept cool and with plenty of air. I made a short call at the establishment of Alex. McKay in South Framingham. Mr. McKay's house, 30x200 feet, built this summer, of Lard and Burnham material, was filled with chrysanthemum cuttings. At Mr. Goddard's I saw a house of Helen Goddard. It is in color lighter than Lawson and darker than Fair Maid. Some fine young plants of *Nephrolepis Barrowsii* also attracted my attention. Mr. Goddard stated that the fronds were unexcelled for funeral work. At Mr. Nicholson's was a magnificent bench of Fiancee. It is yet too early to write about its money-making abilities, but its present appearance is very promising. It will take some time to secure a large stock of it, as it throws but few cuttings on the flowering stem. The plants when received from the West were mostly flowering shoots, but broke freely from the sides when pinched back, and made good plants in the field under rather adverse circumstances. Among other of the recent introductions in carnations Mr. Nicholson showed me the Crimson Glow, Victory, Robert Craig, After Glow and Lieut. Peary, the last named being a white of great beauty, good habit, and the promise of being a heavy yielder. At all the places visited carnations were looking better than usual for this season of the year. Two complaints were heard, one concerning trips, for which fumigation with tobacco-stems was recommended, and the other concerning the leaf spot, which may be stopped by removing the affected leaves and dusting with lime or spraying with a copper solution and lime.

THOMAS F. MATTHEWS.

NEW CHRYSANTHEMUM ROSIERE

A committee of the Newport Horticultural Society last Saturday awarded a first-class certificate of merit to Nathan Smith & Son, Adrian, Mich., for their pink seedling chrysanthemum Rosiere. This new early variety is of the Japanese type, of good color and form, and blooms shown had strong stems. Its commercial value can be gauged (especially its shipping qualities) from a knowledge of the fact that the blooms for which the certificate was awarded were cut a week previously. On the whole, it was very favorably received, and coming as it does at a time when private growers are renewing their interest in chrysanthemum growing, its appearance is opportune.

NEWS OF THE CLUBS AND SOCIETIES

DES MOINES FLORISTS' CLUB.

On the evening of Oct. 20, there met at the Iowa Seed Company's store, for the purpose of organization, Peter Lambert, Charles McAnniff, Julius Ledig, Wm. Trillow, J. D. Lambert, Chas. Simons, M. J. Wragg, Chas. Gay, G. J. Bennett, Frank Stevens, J. B. O'Neill, J. F. Marshall, Chas. N. Page, H. J. Lozier, F. L. Harter, D. O. Finch and Robert Newcomb. Charles N. Page was chosen temporary chairman, J. F. Marshall secretary. On Mr. Trillow's motion, those present voted to consider themselves organized under the title of the "Des Moines Florists' Club." Object of organization as outlined by Mr. Page, Trillow, Wragg and others, the promotion of good fellowship, social enjoyment and the financial betterment of the members. Mr. O'Neill, Mr. Trillow and Mr. Page spoke in favor of inviting several gentlemen from Chicago to assist in getting the club in first-class working order, and to infuse enthusiasm into the members. On Mr. Marshall's motion the chair appointed the following members and committee to draft a constitution and by-laws, select new members and report at the next meeting: J. B. O'Neill, Wm. Trillow and H. J. Lozier. J. D. Lambert was elected president, Wm. Trillow secretary and Charles N. Page treasurer. It was voted to admit to membership on equal terms all persons interested in commercial floriculture and ornamental horticulture, without regard to sex. Next meeting Oct. 24, at the Iowa Seed Store.

WILLIAM TRILLOW, Sec'y.

NEWPORT HORTICULTURAL SOCIETY.

The regular fortnightly meeting of the Newport Horticultural Society was held Wednesday evening last, President Sullivan in the chair. Joseph Gibson read a paper on "Landscape Gardening as a Profession in the Past and at Present." Mr. Gibson treated his subject in an exceedingly interesting manner, and the only unfavorable comment heard was not directed at Mr. Gibson's paper, but at Mr. Gibson himself, for his prolonged persistence in hiding his light under a bushel.

Alexander MacLellan read a paper on "The Introduction of the Dahlia." In concluding he questioned the propriety of societies giving the highest awards, meaning silver medals, to new seedling dahlias, many of which are forgotten in a few years.

FRENCH NATIONAL CHRYSANTHEMUM SOCIETY.

This society, founded about ten years ago at Lyons, has made remarkable progress during the short term of its existence. It holds every year, in conjunction with some local horticultural society, an exhibition and convention. It numbers 752 members, including 48 affiliated societies, and part of its programme is the issue of a journal that appears at regular intervals. The last few numbers, besides containing other news of interest, have been rendered valuable by the inclusion of several instalments of the society's official cat-

alogue of chrysanthemums grown in France at the present time. Membership is not confined to persons residing in France, but is open to growers in any part of the world. C. H. P.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

The bronze medal of the Society which was placed at the disposal of Miss Susan B. Sipe for award at her discretion to the public school children of Washington, D. C., has been won by the Dennison School for superior work in gardening. Miss Sipe, in reporting on this award, states that a year ago the children at this school had nothing but a gravel yard. They now have a magnificent display of asters, zinnias, cannas, a fine lawn, and a vegetable garden that is furnishing the nature study material for the schools of the building. This has been entirely the work of the children, every grade taking its share. Most of the soil has been brought in by toy express wagons from vacant lots.

Department of Plant Registration.

Peter Henderson & Co., New York, N. Y., submit for registration *Canna Vesuvius*; flowers deep red, arranged in branching heads 9 inches across; plant 4 to 5 feet in height; foliage green.

WILLIAM J. STEWART, Sec.

TORONTO GARDENERS' AND FLORISTS' ASSOCIATION.

The regular monthly meeting of this society was held in St. George's Hall on the evening of October 14. A half-dozen blooms of N. Smith & Son's new early pink chrysanthemum were on exhibition and received the certificate of merit. Arrangements for the coming exhibition were nearly completed. Much interest is being shown in the contest for the Hallam cup, which has been in competition for the past four years; also in the T. Eaton Company cup, valued at \$100, which is offered for the best twenty-five Timothy Eaton chrysanthemums shown in one vase. The Toronto Association will entertain the employees of the Dale estate on one of the days of the show, when everybody is promised a good time.

PARIS CHRYSANTHEMUM SHOW.

On the 4th of November the National Horticultural Society of France will open a grand international autumn show of chrysanthemums, fruit and vegetables in the greenhouses on the Cours la Reine.

The French National Chrysanthemum Society will at the same time hold its annual congress. The schedule of prizes comprises classes for new seedlings, both pot plants and cut blooms; general collections, exhibits of plants and cut blooms cultivated for big blooms; in all 74 classes.

Provision is also made for cyclamens, orchids, fruits, fruit trees, shrubs, fine art exhibits and horticultural industrial objects.

The French Pomological Society will at the same time hold its 46th meeting. C. H. P.

CHRYSANTHEMUM SOCIETY OF AMERICA.

Work of the Committees.

New York, Oct. 21, 1905.

Mrs. Wm. Knox (imported) deep canary yellow, Japanese reflex, exhibited by Chas. H. Totty, Madison, N. J., scored 65 points exhibition scale.

Beatrice May (imported), white, Japanese type, exhibited by Chas. H. Totty, Madison, N. J., scored 95 points, both commercial and exhibition scales.

Mrs. George Heaume, amber, tinted salmon, Japanese type, exhibited by Chas. H. Totty, Madison, N. J., scored 85 points exhibition scale.

No. 15, seedling, bright yellow, Japanese type, exhibited by F. R. Pierson Co., Tarrytown, N. Y., scored 80 points commercial scale.

FRED H. LEMON, Sec'y.

NOTES.

The fourth annual convention of the National Nut Growers' Association will be held at Dallas, Texas, Dec. 6, 7 and 8, 1905.

The annual meeting of the Worcester County Horticultural Society will be held in Horticultural Hall, Worcester, Mass., on Wednesday, Nov. 1.

Transactions of the Massachusetts Horticultural Society for the year 1905, part 1, has been received. It comprises the papers and discussions at the weekly meetings of last winter.

The full schedule of the St. Louis Flower Show has been received. The premiums are very numerous and liberal, thirty-seven of them being special offers by friends of the club. One hundred dollars is offered for one hundred blooms of American Beauty rose.

At the meeting of the Rhode Island Horticultural Society held at Providence last Wednesday, the subject under discussion was the gypsy moth, which has made its appearance in Providence and now threatens to overrun the state. An appeal through New England congressmen for aid from the Federal government was advocated.

The first day of the Kansas City Flower Show, Monday, Nov. 13, has been scheduled as chrysanthemum day, and classes under this department will be judged on that day. Tuesday, Nov. 14, will be rose day, and Wednesday, Nov. 15, carnation day. Other interesting classes are specially allotted to Thursday, Friday and Saturday. Send to Louis W. Shouse, Convention Hall, Kansas City, Mo., for a schedule of prizes.

At Kansas City, Mo., on September 21st, the American Federation of Horticultural Societies was organized. The object of the new association is to harmonize the work and promote the interests of horticultural societies. The meetings will be held at the same times and places as those of the American Pomological Society. The officers of the new society are:

President, Wm. H. Barnes, of Topeka, Kansas.

Vice-President, S. W. Moore, of West Virginia.

Secretary and Treasurer, C. E. Bassett, of Fennville, Michigan.

Vice-Secretary and Vice-Treasurer, Wesley Green, of Iowa.

NEW TRITOMAS AND OTHER RIVERTON SPECIALTIES.

A joy to the soul are the River trial grounds to the horticultural scribe and historian. HORTICULTURE would be derelict in its obligations to its readers if it failed to make frequent and



Helenium pumilum magnificum

copious use of the opportunities offered in this remarkable horticultural centre.

The tritoma is familiar to every reader of Horticulture. That some improvement such as *grandiflora* and *Pfitzeri* had been made in recent years is also well known; but that there are new varieties to the number of twenty or more, many of them possessing exceptional merit, will be news to the majority. We will endeavor to give



Aster grandiflorus

a few points in connection with the best varieties as noted by us during a recent visit.

Pfitzeri. Dwarf, 3 to 4 feet high. heads of bloom measuring 13 inches in length, orange shading to salmon at base. Blooms from August 10 until frost. Cut flowers bring \$2 per 100 at

wholesale, and are in good demand for mixing with brown oak leaves, etc. The effect of the orange and brown in such combination is very charming. *Uvaria grandiflora*: Not as brilliant as *Pfitzeri*, and does not commence to bloom until about September 15. *Florida*: Fiery red, August to October. Mr. Elzele considers this one of the best. *Nobilis*: Orange scarlet. *Rufus*: Canary yellow, reddish chrome at top.

Obelisque: Commences to bloom in July; saffron with deeper shadings; a very strong bushy grower. This last characteristic distinguishes it instantly from all other varieties. It makes about four times as much foliage as any of the others; August to September.

Obergartneri Ruthi: Four to five feet, pomegranate shading to salmon at base; August to September. *R. Wilson Ker*: Finest of all; has blooms 12 inches long, and is as free as *Pfitzeri*. Blooms from July to October. Color, brilliant orange; height, 3 feet.

Diana: Buttercup yellow, with long protruding scarlet anthers tipped with black; very unique. September. *Quarteriana*: According to Mr. Gumbleton, the English expert, this variety when potted in the fall should have bloomed indoors in the winter, but it didn't. Up to April there was no sign of a flower, so they were planted out in the open ground and commenced blooming in May. Rich orange scarlet.

Triumph: This might be described as a sort of double-headed giant, as many of the stems produce a lateral shoot bearing a fair sized flower head. The main heads are immense, running from 12 to 16 inches in length; saffron yellow, shaded red. August to October: 4 to 5 feet. *Tucki*: Orange red; commencing to bloom in July. *J. Salier*: Rich cochineal red, protruding stems, dark tips. *W. E. Gumbleton*: Seems to be identical with *Pfitzeri*.

Tricolor: So named because it is white at the base of the flower head, orange in the middle and red at the top. Small plant and flower but charming and very distinct. *Star of Baden-Baden*: The biggest of all, 6 to 7 feet high with flower heads 15 to 18 inches long; primrose striped with green. *Lemon Queen*: Chrome yellow, August to October. Mr. Elzele thinks highly of this new one. That ends the list except for a few that were of rather inferior merit. It looks as if the tritoma is destined very soon to rank as a bedding plant with the canna and geranium, besides being a good thing for cutting. Make a note of it. Leaving the tritomas we were regaled with a walk over the rest of the nursery and noted some of the good things in herbaceous plants that were fine at the late season (mid-October).

Aster grandiflorus: One of the rarest and the best of all the hardy asters, or michaelmas daisies, blooming freely until hardest frost. Mr. Elzele tells us it was a mass of bloom last Thanksgiving. Even after hard freezing it can be taken indoors and flowered. Used in connection with chrysanthemums the effect is very beautiful. The flowers are a lovely shade of violet one and one-half to two inches in diameter; the plant of dwarf, compact habit not over three feet in height and has foliage resem-

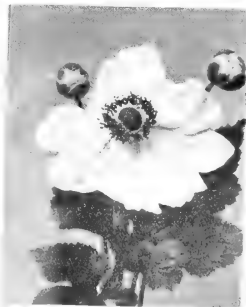
bling the stonecrop (*Sedum acre*) at a short distance. Speaking of sedums we were shown a bed of *S. spurius coccineum* which should have been a sheet of bloom if it would only do for us what it does for Amos Perry in London. Under our trying climate it only blooms in patches.



Dianthus Napoleon III

Napoleon III.: A hardy carnation that always delights the visitor with its brilliant color. It was still in good shape at the date of our visit and was a striking feature of the grounds. A number of new everblooming hardy pinks, have originated here and the most promising and distinct in the collection are *Sparkler*, *White Reserve* and *Delicata*.

In June there are few finer things in the way of a dwarf yellow peren-



Anemone, Queen Charlotte

nial than *Coreopsis grandiflora*. For fall flowering a somewhat similar plant is *Helenium pumilum*. Just now it is simply smothered with its bright golden yellow blossoms and is a charming sight, one and one-half feet.

Senecio pulcher: This gives a nice bit of color at an off time of the year;

rosy purple star shaped flowers, two feet.

The Japanese anemones are in their glory at present and a good idea can be got to the varieties that have been recently introduced. One of the finest is *Purpurea*. The flowers are a lively light carmine, quite double and of largest size. This one has not been catalogued yet but it is hoped to have enough stock to warrant putting it on the market next spring. Lord Ardilaun is a good white but *Geante Blanche* beats it both in size and purity. The flowers of the latter are from three to three and one-half inches diameter and single. *Rose d'Autonne* is the most double of all and is very free flowering. A shade deeper in color than *Queen Charlotte*. *Diadem* is very similar to *Rose d'Autonne*, only dwarfed. *Couronne Virgine*, a very pretty small-flowered white, semi-double. *Soire d'Ebe* nearly as double as *Rose d'Autonne*. *Prince Henry* is one of the largest and most distinct, well shaped flowers, pink, semi-double. *Whirlwind*, *Queen Charlotte* and *Honorable Jobert*, old but still worthy of a place. *Silver Cup* is very similar to *Virgine*. *Couronnement* is a larger flower than *Rose d'Autonne* and lighter pink. Perhaps the greatest freak of the collection is *cristata*. This has crested parsley-like leaves growing in the shape of a cockscomb. It was only in bud so cannot speak as to the flowers. It originated in Europe some five years ago but so far has not been offered in this country.

The last thing to catch our attention on leaving the grounds was a batch of *Aconitum Fischeri*, the delft-blue monkshood, a lovely thing, and the latest blooming of the family. Flowers large and very free. As is well known this is one of the best perennials for shady situations.

G. C. WATSON.

OUT OF THE GINGER JAR.

Burnet Landreth should read Horticulture and keep posted on the color question. News of just what he is crying for appeared in issue of Oct. 14, page 394.

Down here in Philadelphia no one doubts P. Welch's standing as the champion authority on "the ideal salesman." But won't those poor employees of P. W. have fits when they realize the tremendous things they are expected to be and do? And, furthermore, if such ideal salesmen do exist around Boston, won't a few of them kindly come down this way? We can guarantee them good jobs! But, seriously, the whole thing is all fudge. It takes the Almighty to make an ideal salesman, and no amount of printer's ink can change that fact. We all recognize him at sight when he comes to the surface. When we've got him, let us be thankful, and hang on to him as long as we can—providing he does not develop enlarginensis of the coco!

The Burnham Co. must have a pretty good boiler when such a scuffling Philistine as George Anderson is persuaded to buy one. We understand Mr. Connor, the company's local representative in Philadelphia, has just accomplished that remarkable feat. He has also secured in recently Jno. Westcott, B. F. Clark, S. S. Pennock, and others

too numerous to mention. Mr. Connor blames HORTICULTURE for bringing the people his way, which is of course true in part, but it takes a meritorious article to clinch the business. No advertising, however good the medium, can be effective unless the thing advertised has merit. The significant fact in this item, however, is the reluctant capture of that brindle-haired old doubter, "Stand siccar!"

I was greatly captivated with Baxter's arrangement of the yellow pompon at Penneck's the other day. This artist has a fine conception of color symphony and is giving every employee of every retail store in this city a continuous object lesson. When I say "artist" I do so with full responsibility as to the high meaning of that term. Baxter, in addition to natural taste, must have studied Chevreul to some purpose. His combination of red and yellow and brown a couple of weeks ago was so striking as to cause general comment all over the city, and so enraptured our distinguished visitors—such as W. F. Gude of Washington and others—that they declared they had never in their experience seen anything so ideal and charming in color combination. G. C. W.

SAN FRANCISCO NOTES.

At the wedding of John Russell Sievers and Jesta Shoemaker this week it was noticed that the groom chose the Hannah Hobart carnation for his buttonhole ornament. The bride carried a shower bouquet of cattileas.

F. A. Miller, who forty-five years ago established the Hayes Street Nursery and Flower Market, which was then in the suburbs, but is now in the heart of the city, has vacated, the property having been disposed of for \$600,000 for the new Carnegie library. Mr. Miller will continue with the seed business, only in a new location.

George Compere, who is rated the most famous collector of insect parasites, writes from West Australia that he expects to find in China a parasite that will destroy the purple scale that has done so much injury to the orange crop of Southern California. His theory is that every insect pest has a parasite somewhere, if it can be found.

Much romance attaches to the marriage of Edward Conrad of Klondike and Charlotte Ripstorf. Mr. Conrad was formerly a nurseryman on the east side of the bay. The acquaintance began in the letters written by Miss Ripstorf to her brother, and last August she left her position as cashier in a wholesale bulb house in Hamburg, Germany, to come to Dawson and become the bride of Mr. Conrad.

The social season is in full swing, clubs are holding their initial dances and meetings, and in private homes card parties, luncheons and teas are aiding the florists in reaping a harvest.

At the meeting of the Pacific Coast Horticultural Society the following were elected officers for the ensuing year: President, J. W. Bage; vice-president, Niels Paterson; financial secretary, Foreman Atkinson of Golden Gate Park; recording secretary, H. A. Taylor; treasurer, John Clies; librarian, John Timels; usher, Charles Abraham.

CRISP CHATS WITH SUCCESSFUL MEN.

Peter Fisher tells us that the summer of 1905 is entitled to unsavory distinction for two things: pestiferous bugs and drought. Carnation plants in the field suffered severely, especially the large plants, which never take kindly to the change from pots to field. Small plants from late-struck cuttings planted out direct have given better satisfaction. Many half-devoured buds on chrysanthemums and carnations testify to the voraciousness of the cutworm in the houses, despite tobacco ashes, slug-shot and night hunting. Mr. Fisher says that another year of cutworms will make "Over the hill to the poor-house" a popular song.

Disbudding has been actively carried on, so that flowers will not all come on at once, and to secure a good crop of carnations after the chrysanthemum season has gone by. Of recent introductions, none are more satisfactory to date than John E. Haines, which proves to be a great bloomer and a fine scarlet. *Pianee* is not in favor, and is especially criticised for its brittleness of stem and proneness to bleach at the edges of the petals. *Mikado*, like *Prosperity*, is producing flowers almost white at this season.

Mr. Fisher has three benches of a salmon-pink seedling from *Enchantress* which he predicts will beat its respected parent. *Pink Patten* promises well; color brighter than *Lawson*. In one house are six hundred seedling carnations culled out of a lot of four thousand, no two alike. The quest is now on for a scarlet to succeed the introductions of today. Mr. Fisher's theory is that three or four years is the average useful life of a variety, so that about the time a good one of any color is sent out it is well to begin to try for a worthy successor to it.

PARK NEWS.

The committee on parks of the city council of Battle Creek, Mich., have engaged Howard Everts Weed, landscape architect, Chicago, to make the plans and supervise the planting of all the parks of the city. The many little triangular corners at street intersections will be planted with dwarf shrubs, especially *Thunberg's* barberry. *Meacham* park is to have a rockwork waterfall. Willard park, a 16-acre tract on Gogue lake, is to be left largely in its natural condition, excepting the formation of driveways and the opening of vistas.

CATALOGUES RECEIVED.

Schlegel & Fottler Co., Boston, Mass. Autumn catalogue of bulbs and plants. Illustrations excellent.

Thaddeus N. Yates & Co., Philadelphia, Pa. Fall trade list of hardy deciduous and evergreen trees, shrubs and vines.

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Bride & 'Maid—Fan. & Sp.....	8.00	to	10.00	3.00	to	6.00	6.00	to	8.00
Extra.....	5.00	to	6.00	1.00	to	4.00	4.00	to	6.00
No. 1 and Lower gr.....	2.00	to	4.00	2.00	to	3.00	2.00	to	3.00
Liberty, Fancy & Special.....	8.00	to	12.00	5.00	to	6.00	6.00	to	8.00
Ordinary.....	4.00	to	6.00	3.00	to	4.00	2.00	to	4.00
Carnat. and Kaiserin Fancy.....	8.00	to	10.00	to	6.00	6.00	to	8.00
Ordinary.....	3.00	to	5.00	2.00	to	3.00	2.00	to	4.00
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PHILADELPHIA

Orders and Consignments Solicited for

Choice Chrysanthemums, Beauties, Violets, Carnations, Etc.

Flower Market Reports.

BOSTON With a succession of freezing nights, all outdoor flower crops have been finished and indoor crops retarded so that conditions in the wholesale flower marts are much improved. While the chrysanthemum deluge lasts, however, there is little chance for advancement in values. These remain about as last week, except that chrysanthemums should show a better quality for a given price.

BUFFALO. Monday opened up with a bright lookout for a big week's business. Stock came along just right, and things moving lively, but sudden change taking place on Wednesday, rain, snow and hail setting in, and made it a disagreeable balance of week, which consequently handicapped the stock from moving fast. At times good carnations were scarce, and at times poor carnations a drag. Of roses the usual amount was received and no advance on prices. The ordinary quality as bad as previous week. The Beauty demand had fallen away below the average, and the sales a little weak. Dahlias were still on and moving fairly well, the best demand being for red and white, which need but little talk to sell, while ordinary drag at times and are jobbed off at low figures. For past two weeks there has been no sale for the ordinary chrysanthemums. Robert Halliday, the king of the early yellows, has been coming in exceptionally fine, and also Bride in white. Josephine, the improved Halliday, looks well, and no doubt will be a good commercial. Violets have improved considerably and sales are somewhat better. Lily of the valley in good quantity and fine quality. Demand fair. Other stock abundant.

CHICAGO With the "Horse Show" as a headliner for business, everyone seems to be buying right and left with a busy week in view. An event of so great importance as this adds to an unlimited run on violets, orchids, etc. The sales on the flowers have been enormous, exceeding all previous records. Beauties, Liberties, Kaiserin, Bridesmaid, Bride and Charming are in their prime and bring rather fancy prices for high grade stock. Carnations are choice at present and prices have advanced to high water mark. The Chicago wholesale market is rather a mystery at its best, and one never knows what to expect, the majority of A1 stock seems to be shipped out of



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GALAX, Brilliant bronze or green.
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Use our laurel festooning for your decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily, gathered fresh from the woods. Hand made, full size, 4c 5c and 6c per yard. Once used, always used. Branch Laurel, 35c per large bundle. Princess Pine by the pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

town, and the retailers are up against it, making it a case of "first come first served."

LOUISVILLE Business conditions last week were very good, and stock, such as roses, carnations and chrysanthemums, was supplied about equal to the demand. Dahlias are about over. Violets sell well, the quality being satisfactory.

NEWPORT All the New York florists having stores in Newport have closed their places; consequently, permanent dealers have done quite a little business lately. Jurgens supplies a great part of the roses needed, John Marshall fills in the remaining part. Roses are developing all right and good prices are obtained. Carnations are improving and so is the price. Dahlias are among the things of the past. There are promises of a good business in plants for the coming season; the Boston fern, in its several new varieties, leads in demand. Small palms, primulas, cyclamens and cinerarias will be seen in greater numbers than usual.

NEW YORK

PHILADELPHIA

Look Out For Squalls!

Three hot, muggy days and a day and a half of rain played havoc with business and spoiled the keeping qualities of roses, carnations, and other stock the past week, making things on the whole unsatisfactory to grower, middleman and retailer. Today (Oct. 23) is cool and bright; business has started in in good shape, and the indications are excellent for the balance of the week. Chrysanthemums everywhere, but really first class stock not plentiful. Dahlias are done. A celebration by the rose and carnation men is now in order. Chrysanthemums will be the next anathema. Dwarf evergreens and cedar bark for window boxes are having a run.

LIST OF PATENTS.

- 801,978. Hoe Attachment. Samuel J. Garner, Temple, Texas.
802,171. Flower Pot Support. Wilson T. McQueary, Kansas City, Mo.

NEWS NOTES.

The boiler shed of the W. A. Manda greenhouses at South Orange, N. J., was damaged by fire to the amount of \$500 on the night of Oct. 18.

W. A. Munson and C. L. Whitaker, both graduates of the Massachusetts Agricultural College in the class of 1905, have formed a partnership for landscape gardening, tree doctoring, spraying, and general horticultural contracting, and have opened an office at 41 Winter street, Boston. Mr. Whitaker has been with Frost & Co., and Mr. Munson has had successful experience in the Metropolitan Park work.

At the St. Louis meeting of the Nut Growers' Association the preferences of experienced growers as to varieties of pecans for commercial growing were recorded as below in order of superiority: Stuart, Van Deman, Frotscher, Schley, Pabst, Georgia, Curtis and Russell. Ten other varieties received smaller percentages as to desirability. In the latter were included, however, some new ones that have not yet had time to fully demonstrate their comparative value.

The Budlong greenhouses at Auburn, R. I., have been extended until they now cover a space of 208,000 square feet. One 700-foot house of Liberty is in fine shape, the plants having been cut back at three different times to insure a rotation of flowers—evidently a good plan. Mr. White, the superintendent, introduced our correspondent to a method of tying carnations, new to him—a wire stake at the end of the cross rows and between each plant and the plants drawn in tight in the rows with cotton twine.

BUSINESS CHANGES.

Nanz & Neuner have removed to a new and commodious store at 656 4th avenue, Louisville, Ky.

Harry Hoffman has opened a flower stand at the Kuechler Drug Store, Jacksonville, Ill.

C. H. Kneitsch has started in business as a wholesale florist at corner of Huron and Ellicott streets, Buffalo, N. Y.

Demas & Gregorius have opened a retail flower store on 5th avenue, Pittsburgh, Pa.

C. H. Additon, well and favorably known in Boston, will open a retail business at Waterville, Me., on or about December 10.

EVERYTHING SEASONABLE IN

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 21 1905		First Half of Week beginning Oct. 23 1905			Last Half of Week ending Oct. 21 1905		First half of Week beginning Oct. 23 1905	
Roses					Carnations				
Am. Beauty, fan and sp.....	10.00	to 12.00	20.00	to 25.00	Fancy Class.....	1.50	to 2.00	1.50	to 2.00
" extra.....	8.00	to 10.00	10.00	to 15.00	General Class and Lower grades..	.75	to 1.00	.75	to 1.00
" No. 1 and lower grades....	4.00	to 6.00	4.00	to 5.00	Cattilias	2.00	to 35.00	30.00	to 40.00
" Lower grades.....	1.00	to 3.00	1.00	to 3.00	Lily of the Valley	1.00	to 3.00	1.00	to 3.00
Bride & 'Mad, fan and sp.....	3.00	to 4.00	5.00	to 6.00	Chrysanthemums	4.00	to 25.00	4.00	to 25.00
" extra.....	2.00	to 3.00	3.00	to 4.00	Oncidiums	2.00	to 3.00	2.00	to 3.00
" No. 1 and lower grades....	.50	to 1.50	.50	to 1.50	Lilies	6.00	to 10.00	6.00	to 10.00
Liberty, fan, and sp.....	7.00	to 10.00	6.00	to 10.00	Violets.....	.30	to .60	.30	to .60
" extra.....	1.00	to 4.00	1.00	to 4.00	Dahlias.....	.25	to 2.00	.25	to 2.00
Carnot and Kaiserin, fancy....	3.00	to 4.00	3.00	to 4.00	Adiantum Cuneatum.....	.25	to .50	.25	to .50
" Ordinary.....	.50	to 2.00	.50	to 2.00	" Crowsanum.....	.25	to .75	.50	to 1.25
Golden Gate, Chateau, fancy....	3.00	to 4.00	3.00	to 4.00	Smilax	8.00	to 10.00	8.00	to 10.00
" Ordinary.....	.50	to 2.00	.50	to 2.00	Asparagus Plumosus , string....	20.00	to 35.00	20.00	to 35.00
					Sprengen, bunches.....	5.00	to 10.00	5.00	to 10.00

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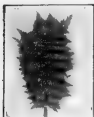
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ROSES				
Am. Beauty, fan, and spec.	to 25.00	25.00	to 25.00	to 25.00
" extra.	18.00	to 20.00	12.50	to 15.00
" No. 1.	12.50	to 15.00	8.00	to 10.00
" Lower grades.	7.00	to 7.00	4.00	to 6.00
" Bride and Maid, fan, and spec.	to 5.00	to 4.00	3.00	to 5.00
" extra.	3.00	to 4.00	3.00	to 5.00
" No. 1 and Lower grades.	1.00	to 1.50	2.00	to 2.50
" Liberty, fan, and spec.	to 1.00	to 1.00	1.00	to 1.00
" Ordinary.	to 1.00	to 1.00	1.00	to 1.00
" Carnot and Kaiserin, Fancy.	to 5.00	to 5.00	5.00	to 5.00
" Golden Gate, Chateaux, Fancy.	1.00	to 4.00	3.00	to 4.00
" Ordinary.	2.00	to 5.00	to 5.00	to 5.00
CARNATIONS				
Fancy Class.	to 2.00	to 2.00	to 2.00	to 2.00
General Class.	1.00	to 1.50	to 1.50	to 1.50
MISCELLANEOUS				
Cattleyas.	to 10.00	to 10.00	15.00	to 50.00
Lily of the Valley.	to 4.00	to 4.00	3.00	to 4.00
Violets.	to 1.00	to 1.00	.40	to .50
Lilies.	12.00	to 15.00	to 15.00	to 15.00
Chrysanthemums.	to 1.00	to 1.00	2.00	to 2.00
Adiantum Cuneatum.	to 1.00	to 1.00	.75	to 1.00
" Crowneum.	to 1.00	to 1.00	1.00	to 1.00
Smilax.	to 15.00	to 15.00	12.00	to 15.00
Asparagus Plumosus, strings.	to 50.00	to 50.00	40.00	to 50.00
" Sprenger, bunches.	25.00	to 35.00	to 30.00	to 50.00

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List of Advertisers

Page	Page
Anderson Wm. H.435	McJorran, R. T.435
Aschmann Godfrey.435	McJorran, R. T.435
Baker Wm. J. ....438	McKissick, W. E. ....438
Bambach, Thos. ....434	McManus Jas. ....434
Barrows H. H. & Son. ....439	McMan, Thos. ....435
Bayersdorfer H. Co. ....442	Metropolitan Material Co. ....435
Black, Chas. ....435	Michigan Cut Flower Exchange. ....435
Boas W. J. & Co. ....447	Michigan Cut Flower Exchange. ....435
Boddington A. T. ....438	Milling H. F. ....435
Bonnot Bros. ....435	Milling Frank. ....435
Boston Florist Letter Co. ....437	Minger J. C. ....435
Breck Joseph & Sons ....438	Mint, Hissall Nurses. ....435
Breitmeyer's J. Sons. ....447	Murdoch J. B. ....435
Budlong J. A. ....438	Niessen Leo. ....438
Burnham Hitchings Pierson Co. ....436	Peacock L. K. ....434
Burpee W. A. & Co. ....43	Pennock Samuel S. ....438
Chicago House Wrecking Co. ....435	Perkins John J. ....435
Chicago Carnation Co. ....434	Phila. Cut Flower Co. ....438
Cole, W. ....436	Pierce F. O. Co. ....435
Cooke G. H. ....447	Pierson F. R. Co. ....434
Cottage Floral Co. ....435	Pittsburg Cut Flower Co. ....435
Cottage Gardens. ....434	Pye R. C. ....434
Crowl Fern Co. ....449	Rawson W. W. & Co. ....438
Dilger Wm. ....435	Raynor John I. ....439
Donohoe W. H. ....447	Reed & Keller. ....449
Dreer H. A. ....436	Reed Edw. ....449
Dumont & Co. ....444	Reinberg Peter. ....438
Dysart R. J. ....435	Robinson H. M. & Co. ....435
Elliott Wm. & Son. ....435	Roebers Julius. ....436
Euler J. G. ....435	Rolker August & Son. ....435
Ernest W. H. ....435	Sander & Son. ....436
Farquhar R. J. & Co. ....438	Schillo Lumber Co. ....436
Fletcher F. W. ....433	Schlegel & Fottler Co. ....435
For Bros. ....435	Schmidt J. C. Co. ....434
Forest Nursery & Seed Co. ....435	Sollay John A. ....435
Fromow W. & Sons. ....435	Sott John. ....436
Ghormley W. ....439	Sharp Partridge & Co. ....435
Grey T. J. & Co. ....438	Sheridan W. F. ....439
Gude A. & Bro. ....447	Sievers J. H. & Co. ....434
Gurney Heater Mfg. Co. ....435	Siggers E. G. ....435
Guttman Alex. J. ....439	Situations & Wants. ....434
Hail Ausso. ....435	Skidelsky S. ....436
Hammond J. A. ....431	Stern J. ....436
Hammond Paint & Stng Shot Works. ....438	Siearns A. T. Lumber Co. ....440
Hanford, R. G. ....436	Sievers H. A. ....434
Heller & Co. ....438	Siegelman Geo. A. ....431
Hew's A. H. & Co. ....434	Suzuki & Iida. ....435
Hochdeffer G. & M. J. ....436	Thompson J. D. Co. ....434
Holly Castle Co. ....435	Thompson Walter. ....435
Horan E. C. ....439	Thornburn J. M. & Co. ....438
Hunt E. H. ....448	Thornburn Bros. ....435
Igoe Bros. ....434	Treadwell & Schenck. ....439
Kasting W. F. ....435	Troy, J. H. ....435
Kentucky Tobacco Co. ....436	Vaughan and Sperry. ....448
Kerker Co. ....435	Walsh M. H. ....435
King Cos. ....435	Ward Ralph M. Co. ....438
Kloeker A. ....435	Weber F. C. ....435
Koral Mfg. Co. ....447	Weber F. C. ....435
Lager & Hurrell. ....436	Weber H. & Sons. ....434
Lang Julius. ....431	Weich Bros. ....434
Leuthy A. & Co. ....436	Wells & Rusch. ....438
McCarthy N. F. & Co. ....437	Wietor Bros. ....435
McConnell Alex. ....441	Wild Gilbert H. ....434
	Wintreich C. H. ....435
	Winterson E. F. ....440
	Young John. ....439
	Young & Nugent. ....439
	Young Thos. Jr. ....447

Buyer's Directory

and

Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston. For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston. For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston. For page see List of Advertisers.

ASTERS.

Waugh, Amherst, Mass.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York. For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York. For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York. Bermuda Harriall Bulbs. For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston. French and Dutch Bulbs. For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H.

Square, Boston. Bermuda Grown Harriall and Freesias.

R. & J. Farquhar & Co., Boston.

Catalogue of Holland Bulbs and Roots. For page see List of Advertisers.

J. M. Thorburn & Co., 36 Cortlandt St., New York. For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York. For page see List of Advertisers.

Schlegel & Fottler Co., Boston. For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J. For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal. Hannah Hobay Co. For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y. For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md. For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Carnation, Variegated Lawson. For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill. For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass. Rooted Cuttings Variegated Lawson. For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y. For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York. For page see List of Advertisers.

CYCLAMEN PLANTS.
C. Winterich, Deffance, O.
For page see List of Advertisers.

DAHLIAS.
L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.
Holly Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass. For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass. Nephrolepis Barrowsii. For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia. For page see List of Advertisers.

W. W. Coles, Kokomo, Ind. Boston Ferns. For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York. Sterilized Sheep Manure. For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Florist & Co., 8-11 Province St., Boston. For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa. For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y. Decorative Evergreens. For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston. For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa. For page see List of Advertisers.

S. S. Pennock, Philadelphia. For page see List of Advertisers.

J. Stern & Co., 1928 Germantown Ave., Philadelphia. For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston. For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston. For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston. For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York. For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo. For page see List of Advertisers.

Young & Nugent, New York. For page see List of Advertisers.

J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich. For page see List of Advertisers.

Thos. Young, Jr., 41 W. 29th St., New York. For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York. For page see List of Advertisers.

George H. Cooke, Washington, D. C. For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C. For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts., Washington, D. C. For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass. For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.
Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
A. T. Stearns Lumber Co., Neposcut, Boston.
For page see List of Advertisers.

Kling Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
For page see List of Advertisers.

C. A. Musser, Duxtown, O.
Dugger Ferns.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., New York, N. Y.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

NICO-FUME.

Kentucky Tobacco Product Co.,
Louisville, Ky.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarick Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sand-er St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

GEO. & M. J. Hochderfer, Flagstaff, Ariz.
For page see List of Advertisers.

ORCHID PLANTS (Continued).

Julius Roehrs Co., Rutherford, N. J.
Dendrobium, Phalaenopsis, Scholochanthus.
For page see List of Advertisers.

PAEONIES.

Gilbert H. Wild, Sarcozie, Mo.
For page see List of Advertisers.
Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not's, Gerani-
ums.
For page see List of Advertisers.

Cottage Floral Co., Cleveland, O.
Rooted Cuttings, Ageratum, Coleus, Helio-
tropes, Geranium.
For page see List of Advertisers.

PLANTS FOR JARDINIERS.

Charles Ammann, Yonkers, N. Y.
Ivies, Eranthis, Acalybas.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.

PUBLICATIONS.

G. C. Watson, Philadelphia.
Mushroom Culture.
For page see List of Advertisers.

LEADING RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 23rd St., New York
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

English-Grown Roses.
Benj. Dorrance, Dorranconet, Pa.
Killarney and Richmond.

California Rose Co., Los Angeles, Calif.
Field-Grown Roses.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
Cyclamen Seed.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

G. C. Watson, 161 Ludlow St.,
Philadelphia.

Sweet Pea Christmas.
H. F. Mitchell Co., Philadelphia.
Cyclamen Seeds.

Conrad Appel, Darmstadt, Germany.
Feb. 1899. High Grade Grass, Clover, and Tree Seed.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.

STEAM TRAP.

E. Hilgard, Youngstown, O.

TEXAS MISTLETOE.

Wm. H. Anderson, Brownwood, Texas.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

Boston.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.
George A. Sutherland Co., 34 Hawley St.,
Boston.

Weich Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 353-37 Elliott St., Buf-
falo, N. Y.

Chicago.

For page see List of Advertisers.

E. A. Budlong, 37 Randolph St., Chicago.
J. H. Hunt, 75 W. Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.

A. L. Randall, 21 Randolph St., Chicago.
Weiland & Kisch, 59 Wabash Ave., Chicago.

Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.

E. E. Winterslow Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
Main Ave.

New York.

For page see List of Advertisers.

Bennett Bros., 55-57 West 26th St., New
York.

Ford Bros., 43 West 28th St., New York.
Wm. Ghorviny, 57 W. 28th St., New York.

Alex. J. Guttmann, 43 West 26th St.
Jas. A. Hammond, 113 West 30th St., New
York.

E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.

James McManus, 50 W. 30th St., New York.
Chas. Milling, 50 West 30th St., New York.

Frank Milling, 50-57 W. 26th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John L. Rayner, 49 W. 28th St., New York.

W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New
York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

Dunnett & Co., Philadelphia.
W. E. McKinick, 1614 Filbert St., Phila-
delphia, Pa.

Leo Nielsen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Denneck, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

ARACARIAS, DECORATIVE STOCK.

H. A. Drott, Philadelphia.
For page see List of Advertisers.

ASPIDUM TSUSSEMENSE.

R. G. Hanford, Norwalk, Conn.
For page see List of Advertisers.

CATTLEYAS, FREESIAS.

H. F. Mitchell & Co., Philadelphia, Pa.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

FERNS, POINSETTIAS.

G. C. Watson, Philadelphia.
For page see List of Advertisers.

GRAFTED ROSES.

R. T. McMoran, Natick, Mass.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

MANETTI STOCKS.

Thos. Meahan & Sons, Inc.,
Dorchester, Pa.
For page see List of Advertisers.

GREENHOUSES BUILDING AND PROJECTED.

Berlin, Mass.—E. O. Perry, one house.
Halifax, Mass.—A. C. Burrage, two houses.

New Castle, Pa.—W. H. Weinschenck, house 100x500.

Meyersdale, Pa.—B. B. Collins, one house.

J. A. Everitt, seedsman, Indianapolis, Ind., says the receivership was necessary to settle his estate, and that he will pay every dollar he owes and have a goodly balance to his credit.



SEED TRADE.

The twenty-third annual report of the American Seed Trade Association has been published. It includes the proceedings at the convention held at Alexandria Bay, N. Y., June 20, 21 and 22, 1905.

The following advertisement appeared in a local Wisconsin paper: "We are in the market for all varieties of peas. Prices right. Terms cash. Call at our new warehouse, foot of Portage street. The John H. Allan Seed Co."

A new packing and shipping department is being installed in Mitchell's, in the rear of the first floor and the sub-basement of 1018 Market street, Philadelphia. To provide for the room thus cut out, the fourth floor of 1020 Market street has been rented and will be used for the storage of field seeds, insecticides, fertilizers, etc.

J. M. Thorburn & Co., New York, must move again next spring, as the building they occupy is in some way involved in the great subway schemes.

Free seeds have become the subject of stage jokes. Wm. H. Crane, as Mr. John Brewster in "The American Lord," a wealthy ranchman of the Dakotas, is urged by his friends to run for Congress. He hesitates, but after listening to the argument of the cowboy committee which waits on him, decides to accept the nomination, and enumerating the privileges and perquisites he will enjoy as Mr. C., mentions among others "a free pass over every railroad in the country tucked away in my wallet, and unlimited free seeds for everybody." The joke seems to be on the seedsman.

BOSTON GRASS SEED REPORT.

Business is of only moderate volume and no great activity is reported. This, however, is the condition usual in late October. Prices are without quotable change during the week.

Clover, West lb.....	13½ @ 14
Clover, North lb.....	14 @ 15
Clover, white lb.....	15 @ 18
Clover, Alsike.....	13½ @ 14
Alfalfa or Lucerne lb.....	13 @ 15
Red Top, per sack:	
West.....	2.00 @ 2.50
Jersey.....	3.00 @ 3.25
Clear.....	7½ @ 9½
R. I. Bent per bu.....	1.75 @ 2.00
R. I. Clear Bent.....	20 @ 23
Hungarian.....	1.00 @ 1.10
Golden Millet:	
Western.....	1.25 @ 1.30
Tennessee.....	1.50 @ 1.60
American.....	1.15 @ 1.25

Orchard, per bu.....	1.85 @ 2.00
Blue Grass, bu.....	1.60 @ 1.75
Timothy, prime.....	1.85 @ 2.00
Timothy, choice.....	1.95 @ 2.05
Am. flaxseed, bu.....	2.25 @ 2.50
Seed barley.....	85 @ 1.15
Buckwheat.....	90 @ 1.00
Winter rye.....	1.00 @ 1.10

—Commercial Bulletin.

WANTS.

GOOD MEN

When you need good men,
skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE OR LEASE.

Prosperous florist and gardener business, established 25 years. Town 5000 population. Customers fashionable North Shore residents. Greenhouses 22x50, 12x20, 12x24, stocked general assortment. Land and dwelling house if desired by purchaser. Owner wishes to retire. For further particulars address Benj. Fewkes, Ipswich, Mass.

FOR SALE.

Five cases second hand seed drawers—214 in all have been used for flower seeds. Schlegel & Fottler Co., 26 and 27 South Market St., Boston.

Cabbage plants, Jersey Wakefield; all season successful, \$1 per thousand. Address Edward Woodfall, Glen Burnie, Md.

MR. WALTER KENNEDY, Floral Expert, wide experience of Australia and Southern Hemisphere generally, will shortly arrive, and will be glad to receive offers of engagement in first-class Floral Store. Address Expert, care Horticulture, 11 Hamilton Place, Boston, Mass.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R., care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A competent palm grower. Only one who has had ample experience and who is up-to-date can need apply for a permanent position. Address, Palm Grower, care Horticulture, 11 Hamilton Place, Boston.

WANTED—Salesman: bright, active man, thoroughly competent for ribbons, supplies and cut flowers. Apply with full particulars as to salary wanted, experience, references, to S. S. Peacock, 1912 Madison Avenue, New York.

THE HOLLY CASTLE

Electric Circulator

THE SENSATION OF THE S. A. F. EXHIBITION

Insures independent hot water circulation. Can be attached to any system of piping at slight expense.

The greatest boon in many years for the greenhouse man

Send for Descriptive Circular

HOLLY CASTLE CO., Engineers, 49 FEDERAL ST., BOSTON.

Fall Advertising

IS RIPE AND

Ready to Pick

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **PECKY CYPRESS**

Everything in PINE and HETLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. W. d. St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

GLASS

FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

CYPRESS SASH BARS

32 feet or longer

HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

METROPOLITAN MATERIAL CO.

GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,

BROOKLYN, N. Y.

In writing advertisers, mention Horticulture

PATENTS

CAVEATS, TRADE MARKS,

COPYRIGHTS AND DESIGNS.

Send your business direct to Wash.ington, saves time, costs less, better service.

My office close to U. S. Patent Office. FREE preliminary examinations made. Atty's fee not due until patent is secured. PERSONAL ATTENTION GIVEN. 19 YEARS ACTUAL EXPERIENCE. Book "How to obtain Patents," etc., sent free. Patents procured through E. G. Siggers receive special notice, without charge, in the

INVENTIVE AGE

Illustrated monthly—Eleventh year—terms, \$1. a year.

E. G. SIGGERS, 918 F St., N. W.,

WASHINGTON, D. C.

What the Trade says about the
Peerless Glass Repair Clamp.

"Your PEERLESS GLASS REPAIR CLAMP is a very useful and practical article out of a greenhouse and for home repairs."

L. S. H. CUMMINS, OAM,

Delavan, Ohio.

For a sample address A. E. KOKER,
Wauwatosa, Wis.

CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO.

OF EVERY DESCRIPTION

In writing advertisers, mention Horticulture

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE

74 FRANKLIN ST. BOSTON

DO IT NOW.

Send to me for Estimates for Designing and Heating Green Houses

WALTER THOMPSON, HEATING ENGINEER, 2195 BOULEVARD, JERSEY CITY, N. J.

..MASTICA..

FOR GLAZING GREENHOUSES

SOLE MANUFACTURERS

F. O. PIERCE COMPANY

NEW YORK

Holds Glass Firmly
See the Point **PEERLESS**
Glazing Points are the best. No rights or lefts. Box of 1,000 points 75 cts. postpaid.
HENRY A. DREER,
614 Chestnut St., Phila., Pa.

ROBERT J. DYSART,

Public Accountant and Auditor

Simple methods of correct accounting especially adapted for florists' use.

Books Balanced and Adjusted

Merchants Bank Building

28 STATE ST., BOSTON

Telephone, Main 58

Standard Flower .. POTS

If your greenhouses are within 500 miles of the Capital, write us, we can save you money

W. H. ERNEST,

28th and M Streets, WASHINGTON, D. C.

NEW GREEN HOUSE CATALOGUE

JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF SCOLLEY HOT WATER and STEAM BOILERS

JOHN A. SCOLLEY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material

Ask for our Special Catalogue No. 551 describing Boilers, Tubes, Pipes, etc. Lumber and Supplies of every kind from the Fifty Million Dollar St. Louis World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

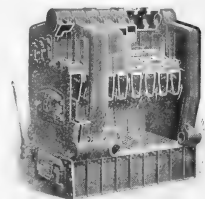
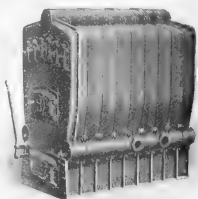
If you offer the right goods in the right way in these columns, you will not lack for customers.

NOW IS THE TIME TO INSURE

YOUR GLASS AGAINST DAMAGE

BY HAIL. For particulars address

John G. Esler, Saddle River, N. J.



Dependableness

THE capacity to give perfect satisfaction day after day, all the season's through—that's the test that gives a boiler a reputation! Any boiler with new fires, bright flues and careful attention will make a good showing, but its the long distance dependable qualities; the surety you have that when the mercury hangs low, your boiler will be steady at work, your houses the temperature desired.

Only a greenhouse boiler designed especially for greenhouses, can be dependable. The Burnham is a greenhouse boiler.

Send for catalogue J. B.

BURNHAM-HITCHINGS-PIERSON COMPANY,

Greenhouse Manufacturers and Builders.

1133 BROADWAY COR. 26th STREET, NEW YORK.

BOSTON BRANCH, 819 TREMONT BUILDING

TOBACCO-PAPER

TOBACCO-PAPER

positively the
Strongest on the market!

Packed in Friction-Top Tins
Preventing Loss by Evaporation.

21 sheets, 75c. 144 sheets, \$3.50;
28 sheets, \$6.50 (only 2½c. each).

furnishes the easiest method
of fumigation ever devised.



"NICO-FUME"

LIQUID

LIQUID:

Contains over

40% NICOTINE

Unsurpassed in Quality

**SUITABLE BOTH FOR
FUMIGATING
AND
SPRAYING**

**BIG
CUT
IN
PRICE**

...OF...

NICOTINE

Compare Quality and Price with
other preparations:

GALLON	\$10.50
HALF GALLON	5.50
PINT	1.50
1-1/2 PINT .....	.50

Our facilities for the manufacture of Tobacco Products are unequalled. Our exhibit of same received the highest award at the St. Louis Fair.

THE KENTUCKY TOBACCO PRODUCT CO., Louisville, Ky., U. S. A.

HORTICULTURE

Vol. II.

NOVEMBER 4, 1905

No. 19



DENDROBIUM PHALAENOPSIS SCHROEDERIANUM
At Rutherford, N. J.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

New Hardy Annual Nicotiana Sanderae

Purple, Snow White, Pink, Dark and Light Red, Crimson, Violet, Salmon

5 GOLD MEDALS

Collection of 8 Varieties
1000 SEEDS
35 Cents

Wholesale Agents:

MESSRS. HENRY A. DREER, Inc., Philadelphia
MESSRS. J. M. THORBURN & CO., New York
VAUGHAN'S SEED STORE, Chicago

Collection of 8 Varieties
1000 SEEDS
35 Cents

Thousands of testimonials have been given to these new hybrid Nicotianas, and they are unanimous in their praise of the beauty and genuine quality of this novelty. The flowers are much larger and shorter in the tube than the original form and colors very brilliant.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS, L. I.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and fill in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.
1251 Chestnut Street SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

The H. WEBER & SONS CO.
CARNATIONS
OAKLAND, MARYLAND

ROBT. C. PYE
Carnation Grower
NYACK, N. Y.

CARNATIONS
All the Best Varieties
J. D. THOMPSON CARNATION CO.
Joliet, Ill.

Variegated Lawson Rooted Cuttings
H. A. Stevens' variety
\$6.00 per 100 \$50.00 per 1000
Orders filled in rotation. Will be ready to ship Dec. 27th. Peony and Phlox list on application.
HENRY A. STEVENS CO.
East Street, Dedham, Mass.



THE MODEL EXTENSION CARNATION SUPPORT

Endorsed by all the leading carnation growers as the best support on the market. Made with 2 or 3 circles. Write for prices and circulars.

We have special low prices to offer and can save you money on

**Calvanized Wire
ROSE STAKES**
Write us for price, before ordering elsewhere. Prompt shipment guaranteed

IGOE BROS.
226 North 9th Street,
BROOKLYN, N. Y.

CARNATIONS Strong, healthy, field-grown plants.
\$4.00 per 100, \$35.00 per 1000, 50 Joints, \$4.00 per 100
E. N. KRONINER, Allentown, Pa.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

PAEONIES

FESTIVA MAXIMA, largest and best of all paeonies, white,

3-5 eyes \$5.00 per doz. \$35.00 per 100

7-10 " 7.00 " 50.00 " "

RICHARDSON'S RUBRA SUPERBA, brightest red, best keeper, producer and pro life.

3-5 eyes \$3.00 per doz. \$30.00 per 100

7-10 " 4.00 " 40.00 " "

FRANCES ORTEGAL, very deep rich crimson. Large and extremely prolific.

3-5 eyes \$2.00 per doz. \$15.00 per 100

7-10 " 3.00 " 30.00 " "

Good Varieties mixed colors, not truly named

\$1.50 per doz. \$8.00 per 100.

CHICAGO CARNATION CO., JOLIET, ILL.

PAEONIES

Queen Victoria (Whitley)..... \$9.00 per 100

Festiva Maxima..... 30.00 " 100

Fragrans (the tall grower and bloom producer)..... \$6.00 per 100

For other varieties of Paeonies and 100 rates, write,

Lucretia Dewberry & Miller

Red Raspberry..... \$5.00 per 1000

GILBERT H. WILD, S. SARCOXIE, MO.

PANSIES

Over one million plants ready from our Famous strain. None better. \$1.50 per 500,

\$2.50 per 1000.

Daisies (Helix) fine plants, \$2.00 per 1000.

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE — Dendrobium Phalaenopsis Schroederianum		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
HARDY LILIES—E. O. Orpet	463	Chrysanthemum Show at Washington	472
AZALEA AMOENA—Illustrated	463	Suffolk County Horticultural Association	473
CHRYSANTHEMUMS IN ENGLAND—C. Harman Payne	464	New Jersey Horticultural Society	473
ECHOES FROM ENGLAND—Harry H. Thomas	464	Exhibition at Tarrytown, N. Y.	473
MAGNOLIA STELLATA—Illustrated	465	St. Louis Flower Show	473
A GROWER'S DUTY—Fred H. Lemon	465	Two California Exhibitions	473
BOILERS AND BOILER INSPECTION—R. T. McGorum	466	Chrysanthemum Society of America	473
SWEET PEAS IN WINTER—Wm. Sim	466	Gardeners' Association of America	473
A MODEL ROSE HOUSE	467	Shows in Prospect	473
AZALEA PAULINE MARDNER, Edwin Lonsdale	467	Baltimore Wins First Series	477
EDITORIAL	468	Club and Society Notes	477
NOTES ON BRITISH PARKS AND GARDENS— J. A. Pettigrew—Illustrated	474	CUT FLOWER MARKET REPORTS	
NEWS OF THE CLUBS AND SOCIETIES		Boston, Buffalo, Chicago, Cincinnati, Indian- apolis, Louisville, Twin Cities, New York, Philadelphia	481
Bay Shore Horticultural Society—Illustrated	467	MISCELLANEOUS	
Agricultural Federation of Rhode Island	470	After Adjournment	469
Morris County Gardeners' and Florists' Society	470	Our Frontispiece	469
Lenox Horticultural Society	470	To Record Burbank's Work	469
Philadelphia Club Has an Outing	471	Personal	469
Gardeners' and Florists' Club of Boston	471	German Novelties for 1906	469
Boston Co-operative Flower Growers' Associa- tion	471	Wholesome Chestnuts	469
Massachusetts Horticultural Society	471	Newport Notes	469
French Gardeners in London	471	Obituary	469
American Institute Show	472	Wires Can Be Buried	478
		Appraiser's Decision	481
		News Notes	486
		Greenhouses Building or Projected	486
		Public Documents Received	486
		Business Changes	486
		List of Patents	486

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Hardy Lilies

Very few classes of hardy flowering plants can equal the genus *Lilium* for grace and beauty, and it is also true that there are but few members of this large family that are reliable here in New England without special treatment of some kind. The few, however, that do succeed are of such value that they are worthy of extended use in gardens. In many flower borders that have to present a dressed appearance throughout the entire growing season it is often a puzzle to know how to cover up the passing of some particular group, as for instance the oriental poppies or the *Mertensia virginica*, and the present mass system of planting that is taking the place of the old-time mixed border, is by no means a satisfactory one unless there are conveniences ready to hand to have qualities of plants in pots ready to make good any deficiency in the border that will surely be seen as the season progresses. Most of the lilies, however, are not transient, they fill their allotted place from the first sprouting above ground in early spring to the coming of frost in autumn, stately always, chaste as in the Madonna Lily, flaring flamboyant in the Tiger Lilies, and gorgeous with the coming of those of Japan, *L. auratum* and the speciosum group.

Lilies, too, lend themselves specially well to mass planting but the soil needs to be prepared for them or else be suited to their growth naturally. In among the dwarf *Rhododendron maximum* where the soil was always cool and moisture secure, the native *L. canadense* and *L. superbum* have for years exceeded in height and quality of bloom any growth seen in their native haunts. If the soil is sandy it is liable to dry out and become superheated to an extent that the lilies will suffer. Swamp muck, easily obtainable in most localities, procured at this season and laid up to aerate and sweeten by the action of the weather during winter, makes an excellent ingredient to apply liberally to a soil naturally too dry, as it is a great absorbent and reservoir of moisture for the root system to draw upon. The roots that come from the base of the bulbs are apparently the ones that enable the bulb to sprout in spring and perhaps not more than one per cent. of the work done to support the plant is traceable to these basal roots; the balance is accomplished by the stem roots, the great food foragers which, if the bulbs are planted reasonably deep, build up great stems and later mature sound bulbs. Hence the ground should be well dug and the bulbs planted with a spade, —the trowel will not make a sufficiently deep hole for the larger growing kinds.

At this season, too, when cleaning up the garden, do not sacrifice too much to the demon of tidiness, but leave a reasonable length of stem above ground in spring to protect them from fork or spade, and what is even more important helps to keep the bulbs sound, for, if the stems are pulled up, water is easily conducted to the heart of the bulbs and trouble begins for the planter. If it is possible to obtain lilies before the ground freezes up fall planting is always best, provided they are protected

with a covering of leaves and pine needles mixed, or, if it is intended to replant or rearrange bulbs already in the garden no time should be lost. No matter how carefully bulbs are stored and handled in spring many roots and some stems are sure to be injured in the handling.

In selecting a suitable place wherein to plant lilies partial shade is much to be preferred, such as that afforded by adjacent shrubbery. The heat of the midday sun in summer is always hard for the plants to endure. Of the kinds that are reliable that have thrived and increased here for years, it may be well to name the most though a catalogue description is not intended, but beginning the season with *L. elegans*, *L. Hansonii* soon follows, then *L. Batemanæ*, *L. auratum platyphyllum*, *L. Canadense* and *L. superbum*, *L. Henryi*, *L. tigrinum* and varieties, ending up the season with the *L. speciosum* group, making special mention of the variety *Melpomene* most beautifully colored of all.

L. candidum can hardly be classed with the reliables, beautiful and classic though it is. Its habit of making a certain amount of growth above ground in late summer (this winter killing always), seems to debilitate and they do not stay with us long, but are easily and cheaply replaced. *L. sulphureum* used to do well year after year but an accident, the failure to protect in fall, put an end to them one specially severe winter.

Last year in July we gathered the small stem bulbs from the *L. tigrinum* growing in the garden, sowed them in a drill between two rows of asparagus, protected in winter with leaves and boards, and this year every one must have grown, and we estimate there are fully two thousand nice bulbs there now, ranging in size from an English walnut down. We expect many to bloom next year.

E. Cooper

Azalea Amoena



An evergreen azalea, reliably hardy as far north as New York City. Flowers magenta pink. A good variety for edging groups of larger growing species. Our illustration shows it growing in Fairmount Park, Philadelphia.

Chrysanthemums in England

SOME NEW VARIETIES

Norman Davis, the well-known grower of chrysanthemums, is first in the field this year with promising new seedling Japanese varieties. We noted on October 14th several very promising sorts, viz.: Norman Davis, a Jap. with long drooping florets, color rich chestnut with gold reverse. The Mikado is another striking flower of great size, with florets rather broad, drooping, curly at the tips, the color reddish crimson and a reverse of old gold. British Empire is another of big build and a solid looking bloom, color deep pure golden yellow. New Treaty has rather broad florets, big flowers, compact form, color a very beautiful shade of rich golden yellow.

HARDY BORDER VARIETIES

These are apparently more popular than ever. Already, before the middle of October, we have had in London two shows, largely composed of little else. The show at the Crystal Palace and the show at the R. H. S. Hall, organized by "The Evening News," gave abundant proof of the utility of these very attractive flowers.

The colors are much more brilliant than when first introduced and growers are yearly improving the stock. M. Aug Nonin, of Paris, has latterly turned his hand to these kinds with great success, for he has produced some charming little bushy, dwarf growing varieties that are very free-flowering and of great decorative value for the border.

A few names of the most striking sorts seen this season may be useful. I refrain from verbal descriptions, as these can be got from the catalogues of any trade grower: Carrie and Jason, both good yellows; Goacher's Crimson, Crimson Pride, Market Red, Mytchett Pet, Fleuve Rouge, Flambeau in various shades of crimson. Pinkish and lilac mauves more or less intense are found in Mme. Marie Massee Perle Rose, Rubis, Goacher's Pink. Of whites there are considerable numbers, many of them quite new, viz.: Fee Japonaise, Queen of Earlies, L'Esperance, Precoce d'Orleans, Glacier, La Parisienne, Parisiana, Roi des Blancs, Dame Blanche, Etoile Blanche. Buffs and bronzes, De la Guille, Le Pactole (large), Louis Lemaire. There are many others, mostly older sorts, that are extensively grown and shown at our exhibitions. Some favorites, perhaps as well known on your side, are Horace Martin, Comtesse Foucher de Carcil, Roi des Precoces, I. J. Quintus, White Quintus, Meduse, Harvest Home, most of the Massee sports, Market White, Ryecroft Glory, etc.

Echoes from England

A GREAT FRUIT SHOW.

On the 10th, 11th and 12th of October the Royal Horticultural Society held a great exhibition of British grown fruits. It was an excellent display of home grown produce, and thoroughly proved that even finer fruit can be grown at home than is sent to us from abroad. It is evidently not the fault of the grower that we import fruit to the value of several million pounds annually; the root of the evil must be attributed to such causes as the difficulty of obtaining suitable land on satisfactory terms, the harsh way in which the fruit grower is treated by some of the existing laws, etc. The British grower evidently has a good deal to learn in the way of grading, packing and marketing his fruit before he can compete with importers. In some cases the high railway rates are a serious handicap. One of the finest displays of orchard-house fruit ever exhibited was shown by Messrs. T. Rivers & Son, Lawbridgeworth, the famous growers of pot fruit trees. One pot-tree of Apple Cox's Pomona carried 30 very fine fruits, and another of the variety Gascoyne's Scarlet bore 24 fruits. One often hears it stated that pot fruit trees do not pay for culture. But when they are successfully grown they are valuable plants. It is true they require careful treatment, as regards watering, repotting, etc., but they will merit a little extra attention. Messrs. Rivers exhibited some magnificent fruits of apples, pears and plums grown in an orchard house. They were perfect in size and color and, of course, far more beautiful than fruit grown out of doors could be.

EARLY FLOWERING CHRYSANTHEMUMS

The Michaelmas Daisy is no longer the chief hardy flower of the garden during the autumn, for it has a serious rival in the early flowering chrysanthemum. There are now many beautiful varieties, and some nurserymen make a specialty of this plant. During the last ten years it has made wonderful progress in popular favor. At the exhibition of early flowering chrysanthemums, held last week under the auspices of the National Chrysanthemum Society, the flowers were shown in large bunches in vases chiefly, and so made a far more attractive show than the stiff, ugly, monster blooms which are shown on boards at the later exhibitions.

Early flowering chrysanthemums are a feature in the London market now. Acres and acres of them are grown out of doors for market, and the flowers command a ready sale. Of course, there is considerable risk in growing them out in the open fields at this time of year, for frost may come any night. The other day a very large grower of these flowers for the London market said he might lose 500 if severe frost occurred, for

Charman Payne

all his plants were in the open and in such quantities that to protect them was out of the question.

A FAMOUS FLOWER PAINTER

There must be many of your readers who have at one time or another been delighted with the flower paintings of H. G. Moon, who died a few days ago, at the early age of 48. Perhaps Moon's greatest work, so far as flower painting is concerned, was when he illustrated the magnificent work on orchids, "Reichenbachia." Most of the colored plates which have appeared in "The Garden" during the past 30 years were painted by him. He also painted the plates in Mr. William Robinson's monthly periodical, "Flora and Sylva," the most beautiful gardening paper ever published, and illustrated "The English Flower Garden" and other works. Moon was not only a flower painter, but his landscapes were highly thought of by many. Mr. W. E. Norton, an American artist of repute, and Moon were great friends, and it was he who led Moon to develop a love for landscape painting. Mr. Moon was a son-in-law of Mr. F. Sander, whose orchid establishment at St. Albans is of world-wide repute. With his death has passed away an artist whose place it will be extremely difficult to fill.

Harry H. Thomas

London, Eng.

Magnolia Stellata



Also known as *M. Halleana*. Earliest spring-bloomer. flowers semi-double, pure white. The illustration shows a fine specimen in Fairmount Park, Philadelphia.

A Grower's Duty

HORTICULTURE:

Gentlemen—"There is a certain man in a certain western city who is getting blamed very badly for not showing in a certain fall exhibition in a certain eastern city, and he is getting hit pretty hard, and a certain society is getting hit indirectly through this gentleman. There are murmurings and deep growls when the name of this gentleman is mentioned in certain circles, and trouble begins whenever his initials are breathed."

The above forms the text for an excellent and fair-minded article by Robert T. McGorum, appearing in the issue of HORTICULTURE of Oct. 21, vigorously scoring growers who do not exhibit at the shows. With the spirit of this article the undersigned thoroughly agrees and recommends it for the perusal of every grower in the country.

Concerning the matter quoted above, allow me to make the following remarks: It is impossible to avoid seeing that the reference is to myself. This is apparent in the article quoted, and is made doubly certain from the fact that echoes of the murmurings and growls have come west from time to time.

A few years ago the C. S. A. held an exhibition in conjunction with the Horticultural Society of Chicago; how many of the gentlemen who are doing the growling exhibited at that show? Every year grand exhibitions are held in Indianapolis, Chicago, St. Louis and Kansas City, with cash premiums double and treble those offered in the east. How many prizes at these shows have been won by these eastern growers in years past?

To make this a little more comprehensive, are there any records to show that chrysanthemums grown east of the Alleghany Mountains have ever won prizes west of the Alleghany Mountains? If this has ever happened it is certain at least that the men who are now doing the criticizing were not the growers of said flowers, and until these gentlemen prove that they can grow flowers that will travel 1000 miles and win prizes we of the west will not consider them competent to judge of our actions in relation to exhibiting at shows in the far east. Growers of the west have repeatedly won prizes at chrysanthemum shows in the eastern cities; also they have put up their exhibits and failed to win a number of times, and it is certain that they will continue to make the effort when it seems to the best interest of the firm to do so, and the foreman of a commercial establishment, whether east or west, is expected and required to hold himself in readiness to go where it seems to the best interest of his firm for him to go.

As to the knocks that are being given a "certain society" on this account, it is too bad indeed that so small an excuse should suffice to turn some people against a society of such usefulness and breadth as the C. S. A. And that the knocks should take the form of a disinclination to pay the society's dues is particularly unfortunate.

Having the welfare of the C. S. A. deeply at heart, it

is a very good thing that the unintentional cause of this murmuring is so soon to end his official connection with the society.

It will then be possible for the dissatisfied gentlemen to select a secretary who will always be on hand with a large exhibit, whether the society meets in Boston or St. Louis.

Fred A. Union

Secretary C. S. A.

Richmond, Indiana, Oct. 24, 1905.

Boilers and Boiler Inspection

Gardeners from the other side of the water are familiar with the old saddle boiler in use a good many years ago, a type which is in use at most of the private places over there yet, and all will remember the stoke holes. Those were the days when the apprentice had to take out the ashes and help the journeyman whose week it was on the fires to get in a supply of coal, and he considered it an honor if he was allowed to try his hand at firing. A kindly foreman would often take the apprentice in hand and give him an insight into the workings of the boiler. I was always interested in this class of work and often would go down from the bothy and see the fires banked for the night. In after years I was as much interested when I had to do it myself.

But my first experience with steam was in the Waban Rose Conservatories nearly twenty years ago. It was here that I learned the rudiments of steam heating. I have read everything I could on steam boilers, heating, firing, etc., have got acquainted with engineers in shoe shops and electric light stations, attended lectures through courtesy of some of the engineers, and have done everything to familiarize myself with steam for both power and heating, and would today go a distance to see a first-class boiler plant. Through the above way I have gained a practical knowledge of steam boilers and I advise every young man to study this branch of the business thoroughly. The old saying is, "the boy is the father of the man," and the young man of today ought to gain a practical knowledge about steam boilers and heating for it is he who, in years to come, will fill the places of the men, who will, by reason of natural laws, be gone. To be a successful florist he must understand this branch of the business thoroughly and be able to show those under him how to get up steam quickly with a minimum amount of coal, and fire so as to keep a steady pressure. This part of the florist business is the most expensive and it is to his advantage if he can keep down the coal account as low as possible. I have been in many boiler rooms in this State belonging to florists; some were kept as they should be; some, I am sorry to say, were not.

Steam boilers in this State are exempt from inspection by the State authorities. Here is a copy of part of the present law governing the same, Chapter 472, Acts of 1905:

"Section 1 (in part). All steam boilers of more than three horse power, except boilers upon locomotives, in private residences, or under the jurisdiction of the United States or boilers used exclusively for agricultural, horticultural or cranberry purposes, shall be inspected either by the district police, or by an insurance company authorized to insure boilers within the commonwealth. Such inspection shall be made internally and externally at least once in each year."

I have often wondered why florists, even if the law

didn't cover them, don't have their boilers either inspected or insured. The latter to my mind is the best way as the inspectors of the company are practical men who have to pass a rigid examination before being put on that work. It isn't from danger of explosion as much as being reasonably sure of getting safely through the winter. Very few men will go without life insurance, yet they will neglect the very thing which helps to pay the premiums on the latter. A rose grower in an adjoining State lost two 300-foot houses of roses by his boilers giving out through some defect which could possibly have been remedied by inspection. It will surprise many to know that there are only ten florists in Massachusetts who carry boiler insurance, and I think that also means all there are who have inspection.

Very often I have heard this remark, "I haven't looked into my boiler for years, but I think it will be all right." The florist is usually a practical, far-seeing man, but on the boiler question as shown by the above report he is sadly negligent.

Robert W. Brown

Sweet Peas in Winter

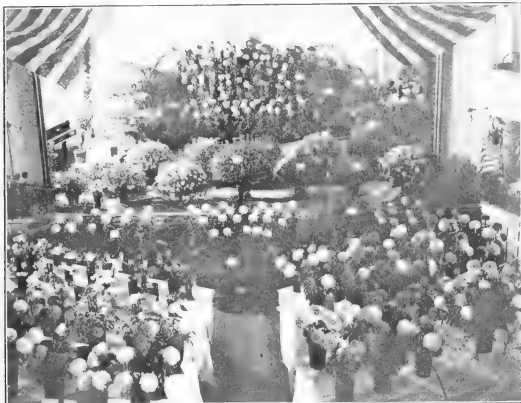
It is in comparatively recent years that there has been any demand for sweet pea blooms in winter. This demand has been created by putting on the market something that the people wanted. I am of the opinion that there is a great future ahead of us who are specializing in this flower, as the demand is increasing very rapidly. The sweet pea will undoubtedly rank next to the violet as a staple cut flower. The want of winter-blooming varieties has greatly impeded the advancement of this flower. We have now, however, a few varieties, and it will only be the matter of a few years when we will have varieties of all shades of color.

The winter-blooming sweet pea is an entirely distinct race from the summer-blooming. Although it is quite possible to have the winter-flowering varieties bloom in summer it is impossible to make the summer-flowering varieties bloom in winter. Many a grower has sowed his seed in season to have flowers all winter but the result has been a fine crop of vines but no flowers until late in the spring. This is the way the summer-flowering varieties do if planted from July to January under glass. The winter-flowering varieties will bloom in October if sowed the first of September, and will bloom all winter and the crop will be all marketed before the summer-blooming varieties commence to bloom. The sweet pea when grown under glass is in quality far ahead of the flowers seen in summer. I have time and again measured stems over two feet long with four blooms on each stem.

The sweet pea does best on solid beds; they will bloom on these just as early as on a bench. I find the confining of these roots has nothing to do with the blooming, what you need being the right varieties. Large, light and airy houses are needed to grow the sweet pea successfully; the sides should not be less than six feet high, four feet being glass. This will give headroom without having to pull the vines down, thus ensuring straight stems.

William Lin

BAY SHORE (N. Y.) HORTICULTURAL SOCIETY.



The second annual exhibit of this society on October 21 and 25, was a great success. The orchestra and stage of the Carleton Opera House offered an opportunity for decoration that was improved to the utmost, as will be seen by the illustration. The judge of the flowers were I. L. Powell of Millbrook and J. T. Scott of Tarrytown. The names of James H. Hyde and President Eugene P. Strong led in the list of prize winners, others were Benjamin Stephens, M. Mullen, gardener; Miss C. S. Taylor, Thomas McKinley, gardener; Edwin Hawley, John Williams, gardener; Richard Hyde, Ste-

phen Tott, gardener; W. L. Andrews, A. Kochen, gardener; Edwin Thorne John T. Don, gardener; Miss M. M. Bourne, Louis Kraz, Jr., gardener; Thomas Adams, B. Dietrich, gardener; Mrs. E. S. Knapp, P. Paprocki, gardener; J. J. Carroll; Miss I. Varo.

Special prizes were given to James R. Howell for display of 39 varieties of dahlias, and to J. H. Hyde for orchids. The display of dahlias, 59 varieties, by the E. R. Pierson Co., of Tarrytown, was a notable feature. Special mention should be made of the fine exhibit of vegetables grown out of doors containing over 300 varieties, by Edwin Thorne.

AZALEA PAULINE MARDNER.

This azalea is one of the best, if not the very best, variety with color that may be had easily in bloom for Christmas. It comes best the second year after importation. In color it is a light and pleasing shade of pink. Mr. Jacob Becker points with pardonable pride to a thrifty lot of plants of this variety he now has in his greenhouses. He would like more of it. He had 150 on his last order for azaleas, but when the invoice was received a few days ago none were to be found. The order had been accepted and the price agreed upon in good faith. He now believes that a better price had been offered for the plants than was agreed upon by himself, and the man who accepted the order. His disappointment was so great that he feels like turning the remainder of the order down and refusing to accept the same, as it was the Pauline Mardner that he was most anxious to secure.

There ought to be some redress in a case of this kind, but I suppose there is none, excepting to decline to do business with the derelict firm any more. The transaction, however, tends to emphasize the value of the variety.

EDWIN LONSDALE.

A MODEL ROSE HOUSE.

The Engineers' Review publishes for October an illustrated article of nearly four pages, descriptive of the big rose-house of the John Young Company at Bedford, N. Y. The dimensions of this house are 54x701 feet. It lies east and west, 3-4 span, the eaves on each side about 6 feet high, the west end of the house having an elevation of 7 feet above the east end. The heating is by steam from a 120 horse-power tubular boiler, located in the power house 10 feet to the north of the greenhouse, and radiators of 11-4 inch wrought iron pipe placed on the side walls and under the beds running parallel with the grade. The heating system is fed by a 7 inch main which runs in a trench for a distance of 70 feet and enters at the north side of the house at a point 130 feet from the east end, and the entire system throughout the house is as near perfection as the designers and builders, the Burnham-Hitchings-Pierson Company could make it.

This house holds 22,000 plants of Beauty, Bridesmaid, Bride and Killarney and is under the efficient management of William Plumb, who has been superintendent of the place since its inception. Mr. Plumb was twice president of the N. Y. Florists' Club, and John Young, the owner, has been for many years secretary of that body.

Consul General Guenther, of Frankfurt, Germany, reports a strong movement against the present system of fighting phylloxera in the vineyards of Upper Alsacia. The best way to battle with it is by the introduction of the scions of healthy American grapevines. Infected districts should, it is urged, be separated.

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INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Plant bulbs

Whether for the gratification of a love for floral beauty or for the strictly commercial purpose of spring cut-flower sales every one of our readers should take time now to plant at least a few spring-flowering bulbs. The cost of bulbs and the labor are alike trifling and one never regrets it in the springtime. The florist with a little area in front of his office will find a most effective advertisement in filling it with tulips and daffodils and it cannot fail to draw orders for next season's planting. A few rows of *Narcissus poeticus*, *ornatus poeticus*, and double *poeticus*, will come in handy for spring cut flowers, the double variety blooming just when needed for Decoration Day work.

The best reading matter

Frequent congratulatory letters come to us on the increasing excellence of HORTICULTURE's contents from week to week. It is our aim to provide our readers with instructive, practical matter from the highest sources. Our columns are open to all for this purpose. What we prefer and what we know our readers prefer are short, crisp communications, direct to the point and practical. Of verbose articles in which ten lines are used to tell what could be told in one we have a supply. Instructive readable matter in concise form is always welcome and equally so on whatever phase of horticulture it may touch. Those who talk through HORTICULTURE's columns are assured of an intelligent and appreciative audience.

A promising field for chrysanthemum development

Chrysanthemum fanciers are making devoted and persistent efforts to give us each year new varieties better in some respect than any hitherto offered. The quality of early-blooming is especially sought and every

season sees the introduction of varieties that show an advance in this direction. While we should be and are fully appreciative of the hybridizers' efforts, yet it seems that an opening for greater usefulness and a field for more novel and interesting results lie in the line of development of a race, sturdy, dwarf-growing and free-flowering, that will respond readily to garden culture and endure the vicissitudes of pot-plant existence. This class offers the material and the incentive for a breaking-away from the uninteresting monotony that has come to characterize the typical chrysanthemum show and its development means the introduction of a much-needed artistic decorative element in our exhibition. We are pleased to note a wide-spread rapidly-growing appreciation among the chrysanthemum enthusiasts for this early-flowering hardy type. As our foreign correspondence indicates, our cousins across the Atlantic are thoroughly awakened on this line and there is plenty of evidence that the people on this side are in the mood to follow them.

The carnation in the exhibition hall

The rose has one great advantage over the carnation in the exhibition hall, in that the conditions which cause the carnation to close up and shrivel into a repulsive object induce the rose bud to unfold and assume a new beauty. We note a comment in the *Journal of Horticulture* (London) wherein attention is called to the unfortunate lack of keeping-quality in the American carnation as compared with the typical English varieties. The need for improvement in this direction has been apparent to all friends of the carnation and the subject has received much attention year after year in the sessions of the American Carnation Society, but thus far progress appears to have been backward instead of forward, for the failing seems to increase in prevalence as fancy breeding advances. Comparisons of the staying-powers of the high-bred varieties of the present day with the older sorts are often made and generally to the disadvantage of the former. Modern methods of cultivation with a view to excessive development of robustness of plant, stem, and bloom are not calculated to reduce the trouble. Persistent experimenting as to time of picking and methods and temperatures in the storing of blooms seems to have demonstrated but little of practical value thus far, and the carnation exhibitor who has to ship his flowers five hundred or a thousand miles to the show thus stands at a great disadvantage in competition with nearby growers. It has always seemed to us that it was a great mistake to allow sleepy carnation flowers to remain on the exhibition table. Their prompt removal would be to the advantage of the exhibitor, the variety, the show as a whole and the carnation as a flower. True there have been occasions when the enforcement of this rule on the closing day would have well-nigh dismantled the hall, but there should be sufficient generosity and pride among the local people to keep the tables filled with fresh material till the close.

AFTER ADJOURNMENT.

Reliability on the part of advertisers is an essential in the business methods of today. We have full faith in the representations made by our advertisers. In writing to them always mention this paper.

Alexander Klokner writes that the sales of his glass repair clamp, which he is advertising in *Horticulture*, averaged during the month of September 34 boxes a day and in October the amount is 15 per cent. better. A good and useful article advertised in the right way in the right medium will always win.

OUR FRONTISPIECE.

Our frontispiece is a reproduction of a photograph representing a small group of the beautiful *Dendrobium Phalaenopsis Schroederianum* recently taken at the nurseries of the Julius Roehrs Company. This is the blooming season of this useful orchid, and Messrs. Roehrs have flowered some beautiful shades all the way from pure white to a very fine dark maroon. A native from New Guinea, therefore a warm-house orchid, it is without doubt the finest of this species of epiphytes. It has not been imported into this country thus far to any great extent.

TO RECORD BURBANK'S WORK.

In order to preserve an accurate record of the results of Luther Burbank's experiments in plant breeding, the Carnegie Institution has decided to send a skilled botanist to Santa Rosa who will act as a recording secretary to Mr. Burbank. Thus far Mr. Burbank's achievements are merely a matter of memory. He has never had time to keep any record of what he has done or of what he has been unable to do or the reasons for it. The methods and processes he has used are known only to himself and the people to whom he has incidentally described them.

Reports are promised from this botanist from time to time, the intent being to protect Mr. Burbank against the sensational newspaper correspondents and gushing admirers who credit him with all sorts of absurd and impossible discoveries and triumphs. Hereafter when he has done anything of public interest authorized statements will be issued to the press.

PERSONAL.

Mr. Hunter, representing the German Seed Co., of Los Angeles, Cal., is visiting New York.

Miss Anna Liddon Pennock, sister of Samuel S. Pennock of Philadelphia, was married at St. John's P. E. Church, Lansdowne, on Oct. 28th, to Dr. Nathan Pennypacker Staffer of West Philadelphia. The bride is a daughter of Abram L. Pennock, founder of the well-known firm of Pennock Bros. of Philadelphia. The church was tastefully decorated for the occasion. J. Liddon Pennock of Pennock Bros., was best man. Miss Elizabeth Pennock was maid of honor, and the bride was given away by her father. The ushers were C. M. Bunting, S. S. Pennock and Malcolm Donaldson. Mark another milestone in the onward march of the chosen people of the Goddess of Good Fortune and of Lansdowne. May their shadows never grow less.

GERMAN NOVELTIES FOR 1906.

Mr. Ernst Benary's novelties include Pearl Aster in three colors; the flowers are after the form of the Jewel Aster; and Hercules Aster, white, very long petals, flowers attain a diameter of six or seven inches. *Begonia gracilis luminosa*, lustrous reddish-brown foliage, and flowers fiery-dark scarlet, recommended for bedding. *Cyclamen persicum giganteum* Margaret, a gigantic bloom, snowy white with silky lilac eye; *Dianthus* Snowdrift, very double with finely laciniated petals, *Gloxinia hybrida* Cherub, flowers three inches across, and of a charming combination of colors; *Schizanthus* Grammi niveus, snowy white flowers, and early large-flowering winter stock, Crimson King.

Messrs. Haage & Schmidt's novelties include Aster unicum, beautiful loose flowers of splendid form, five to six inches in diameter, of the Hohenzollern type; and Dwarf Queen Aster, an early flowering scarlet; *Dianthus lacinatus Vesuvius*, flowers intense orange scarlet; *Francoa glabrata*, flowers of the purest snowy white, exquisite for bouquets; *Heuchera sanguinea maxima*, an improved form of *Heuchera sanguinea splendens*; *Scabiosa Japonica*, hardy perennial scabious from Japan, flowers a beautiful mauve or lavender blue; *Schizanthus retusus* Rosamond, ground color of flowers of a pleasing delicate rose or pink; the upper central lip is adorned with a creamy white spot finely veined with deep purple; *Schizanthus retusus* trimaculatus, another new and interesting variety, with bright attractive blossoms.

Mr. Frederick Roemer's novelties include a fringed Double Hybrid Ever-Blooming Hollyhock, which is an improvement on the double hybrids he sent out last year. In asters he has quite a number of new things to offer, nearly all in light blues, including the Dwarf Comet Perfection Light Blue, the Dwarf Light Blue Hohenzollern, Ray Aster and July Ray Aster. He is also offering an early Parisian aster of brownish-violet and white, blooms about the middle of June. Also an extra early salmon-red Hohenzollern aster, a very good advance on the Queen of the Market. Several new pansies are offered, including Giant Prize Pansies Siegfried, Aureola and Mauve Queen. *Streptocarpus hybridus erectus*, in white, red and blue; and *Eryngium planum variegatum*, a nice perennial with variegated leaves; the beautiful dark violet, fine thistle-formed flower heads form a neat contrast to the foliage.

Mr. Martin Grashoff is introducing seven new distinct colors of the Waldersee aster, namely: white, carmine, white-pointed red, white-hued rose, light blue with white, rose carmine, and dark blue with white. Also *Lobelia erinus compacta* Victoria, a very compact growing plant with dark green foliage, very large flowers of light rose red, and as floriferous as *Lobelia Emperor William*.—*Horticultural Trade Journal*.

Inclosed find contract for one year's advertising. I think your paper is all right for I received some fine orders from it. Keep on with this copy until you hear from me again.

J. C. SCHMIDT CO.

WHOLESOME CHESTNUTS.

Sow hollyhock seed and keep them growing right along if possible.

Sow antirrhinum seed to have good, strong plants for early flowering.

Let the sun have full swing at the crotons; the color will be better thereby.

Store cannas in a dry place. Dampness with a low temperature is fatal to them.

Get everything perishable that is worth saving under cover as soon as possible.

Close-fitting board shutters for cold frames will save many mats in course of time.

Be exceedingly sparing with water for geraniums in flats; they are very liable to damp off now.

Let the failures of the past season be naught but stimulating incidents directing to future successes.

Cut up dracaena canes and roots of old plants, put them in shallow flats over heat and you will soon be "seeing things."

Where young evergreens have been recently planted put a covering of coarse manure over the roots and strew some marsh hay among the branches—just enough to afford a partial shade.

Spruce branches stuck in among and in front of low groups of rhododendrons will help them to pull through the winter in adverse situations. Don't be parsimonious in regard to allowance of help in the winter. A little leeway in this will go a long way towards the attainment of results, and the maintaining of good feeling and good nature and luxury at the expense of either of these, what is it? Don't cut down wages in the winter through an erroneous conviction that less work is done then than in the summer; it is harder, rather, with oftentimes more of it.

NEWPORT NEWS NOTES.

Mr. Alexander MacLellan, a well-known Newport gardener, is a candidate for first councilman in the Fourth Ward.

Bruce Butterton's display of *Cattleya labiata* last week was gorgeous. *Cattleya labiata* is not especially well suited for Newport, because it comes into bloom too late, but Mr. Butterton was peculiarly fortunate in having them this season, when his employer, who had just returned from abroad, decided to spend part of the autumn here.

OBITUARY.

James M. Paterson, assistant city clerk of Newark, N. J., died October 28, of pneumonia, after an illness of two days, at his home, 893 South Fourteenth street. He was president of the New York Horticultural Society in 1878.

Have you a surplus of any kind of good stock? Turn it into cash by advertising it in *Horticulture*.

NEWS OF THE CLUBS AND SOCIETIES

THE AGRICULTURAL FEDERATION OF RHODE ISLAND.

At the meeting in Kingston on Oct. 24, the above title was chosen by vote for the new organization of horticulturists and agriculturists in the State of Rhode Island. Hon. George N. Bliss, the first delegate to the Federation representing the Rhode Island Horticultural Society, was elected permanent chairman, and H. J. Wheeler, secretary. The following letters were presented by Judge Bliss and Professor Wheeler, respectively:

Providence, R. I., Oct. 19, 1905.
Hon. George N. Bliss,
Dear Sir: I am instructed to forward to you a copy of a vote adopted at the meeting of the Horticultural Society held October 18th inst., as follows:

Voted: "That Hon. George N. Bliss as delegate of this Society to the Agricultural Federation of Rhode Island be instructed to bring the Gypsy Moth matter before the Federation and use his efforts to have that body draft and secure the passage of an act or acts looking to the control of the Gypsy Moth and other insect pests in Rhode Island."

Yours truly,

C. W. SMITH,
Secretary.

Boston, Mass., Oct. 18, 1905.

Dear Professor Wheeler,
Referring to our recent conversation, would say that I should consider it a tremendous calamity for your State to allow the gypsy moth to increase within its borders. If any one could see the conditions here in many of the towns near Boston, the north in June and July, they would appreciate the importance of dealing promptly with this plague and not allow it to increase. As you very well know, throughout the infested district large numbers of fruit, shade and forest trees have been killed by the moth, but this is only part of the damage. The verminous worms invade houses, get into pantries, closets and even beds, while the walks and sidewalks are often made slippery by their crushed bodies. In a Malden and Melford there has been a notable depreciation of real estate values in the caterpillar district, and many houses have been rendered unsalable except at a great loss. No one will rent a place knowingly where the caterpillars are allowed to swarm.

We have spent in this State over a million and a quarter of dollars in fighting the moth plague up to 1900 and have now taken up the work again with an appropriation of \$300,000. This has been done freely by our people as a last resort, after they found themselves unable to cope with it. It seems to me, from some fifteen years' acquaintance with the moth pest, that it would be most unbusinesslike for your State to allow the insect to increase. I do not know now the exact infested area in Providence and vicinity, but it must be continually enlarging from year to year. I can see no reason why your people will not have the same experience that I have had and that in the long run they will appeal to me for help. I am sure in so doing that, to the best of my judgment, \$1 spent now in suppressing the moth will be more effective than \$10 spent in five years from now.

As the moth now occurs in New Hampshire, we have taken New Hampshire as a model by which it seems to me that the present would be a proper time to bring the matter to the attention of all New England horticulturists so that they may be made to actively assist one, there might be concerted action all along the line.

Yours very truly,

A. H. KIRKLAND,
Secretary.

After a general discussion, the following motion was passed: "That the Federation of Horticulturists and Agriculturists in Rhode Island by means of an appropriation by the State." It was also voted to ask the aid of the Na-

tional Grange in securing national aid in the control of these pests; to invite the superintendent for suppressing the gypsy and brown-tail moths in Massachusetts, and the Boards of Agriculture in the other New England States, to cooperate in securing a conference of the New England congressmen to consider the desirability of securing national aid; to enlist the services of the Village Improvement Societies of the State. The chairman and secretary were instructed to prepare an Act providing for the control of the gypsy moth and all other insect pests, and for the appointment by the Governor of a superintendent to take charge of the work.

It was also voted that the Federation request the congressmen to use their efforts to have basic slag meal, now falsely classified as an iron ore, and therefore subject to duty, placed upon the free list when the tariff is revised.

In the discussion of the Adams Bill, it was noted that, notwithstanding the very large increase in the appropriations made to the Department of Agriculture, no increase has been made in the appropriations for the experiment stations since the passage of the original bill in 1887; also that the amount expended under one of the bureaus of the Department a year ago was greater than the entire appropriation for all the experiment stations in the United States. Individual work and independent investigation in different sections, even on the same problem, were commended. It was finally voted that the Rhode Island congressmen should be asked to use their utmost efforts to secure the passage of the Adams Bill. It was also voted that the delegates to the Federation and the Master of the State Grange should endeavor to have similar resolutions passed by their respective organizations.

LENOX HORTICULTURAL SOCIETY.

The annual chrysanthemum exhibition of this society was held October 25 and 26 in the Town Hall, Lenox, Mass. The competition was especially keen in carnations and vegetables. The chief feature was the miscellaneous class in which the group displayed by Edna Heermans, superintendent of Elm Court estate, took first prize, and that by E. Jenkins, gardener to Giraud Foster, won second. In 12 foliage plants the prizes went to F. Heermans, 1st; E. Jenkins, 2d; A. J. Loveless, 3d. In chrysanthemums Edwin Jenkins displayed a magnificent vase of 36 blooms William Duckham, which was an easy winner. H. P. Wooley, gardener to S. W. Woodward, exhibited a fine lot of *Oncidium varicosum*. Diplomas were awarded to A. H. Winkert for new cosmos Lady Lenox; A. J. Gutman, New York, for carnation Victory; E. Dunn, for group of plants; E. J. Norman for display of vegetables. The judges were Peter Duff, Orange, N. J.; I. L. Powell, Milbrook, N. Y.; James Wheeler, Brookline, Mass.; Walter Shaw, Huntington, L. I. GEORGE FOULSHAM, Secy.

MORRIS COUNTY GARDENERS' AND FLORISTS' SOCIETY.

The Flower Show is a thing of the past, but it will live in the memory for a long time as the most successful and pleasant affair we have ever had. The stage of the hall was decorated by A. Herrington, with kentias graduated from fifteen feet down, pot plants of pink and white cosmos twelve feet tall, bush chrysanthemums trained naturally, and scores of foliage plants bordered by *Farleyense* fern. W. Duckham put up the central group, which covered a space of one hundred square feet. A magnificent *Caryota urens*, fifteen feet tall, was in the centre, surrounded by crotons and other highly colored foliage plants, *Clerodendron fallax* and other flowering plants. These groups were not in competition; simply a work of love.

Madison is the acknowledged centre of roses, and it begins to look as if the chrysanthemum is getting close to them. In the large class of thirty-six flowers, W. Duckham won by small margin over A. Herrington, and, by the way, let me tell you that there is a grand surprise in store for the growers. It is a seedling pink grown by Duckham from plants furnished him by Dailledouze Bros. In color, form and substance, it is grand, and it is not nearly finished yet. It was grown under a number. On the first day of the Show, it was named Paul V. Dailledouze. You will hear of it next season. Totty's Beatrice May, a white, is superb. If these two do not make a record next season I will be much disappointed.

The staging of single flowers with short stems, in single vases, is quite a relief, and adds to the attraction of a show, as they can be examined so much more closely.

In the competing groups of chrysanthemums and foliage plants, James Fraser won first; J. Heermans, second; and R. Vince, third. Three fine specimen chrysanthemum plants in groups were put in by A. Herrington. A single specimen was shown by Peter Duff; all winners. A standard chrysanthemum six feet tall, variety, Mrs. Coombs, was shown by A. Herrington. The old-timers, Mrs. H. Robinson and Morris, were in the front ranks as winners.

The Farquhar silver cup offered for two vases carnations, 25 blooms each, two varieties, one to be white, was won by W. Duckham, with Fiances and white Lawson, with R. Vince a close second, with the same varieties. Pink Lawson was in strong evidence in other classes, but she was certainly eclipsed by Fiancee at our show. Gutman's Victory showed up in fine form, as did Ward's Robert Craig. Violets were not so plentiful; James Fraser, Peter Duff and A. Laub & Sons carried off honors.

In the vegetable classes, the Henderson special prize brought out five contestants; W. Duckham won, with J. Heermans a close second, and James Fraser, third. Weeber and Don's special prize was won by John Fraser; H. S. Hand, second. Thornburn's prize for Noroton Beauty potato was captured by W. Duckham. Fine displays

of apples were staged. Arthur Capara swept the deck.

Things of special merit were on the non-competitive list. Lager and Hurrell's display of orchids was rare. J. N. May's seedling pompons were exceedingly pretty. R. Vince's Barbarossa grapes were in monstrous bunches, and J. Heermans' Gros Colmar were like large plums. L. B. Coddington had fine vases of Meteor and Richmond roses.

Messrs. Totty, Duckham and Herrington were the committee of arrangements; William Turner, Thomas Head and James Blair the judges.

E. REAGAN.

PHILADELPHIA CLUB HAS AN OUTING.

On the invitation of Edward A. Stroud of the Strafford Carnation Farm, the Florists' Club of Philadelphia visited that interesting establishment, Oct. 26th, and spent a pleasant afternoon inspecting the crops and incidentally having a few games. The carnations were looking splendid and all were loud in their praises of Mr. Stroud's ability not forgetting a good word also for his able foreman, Mr. Beattie. Mr. Stroud proved himself an ideal host. The speech of appreciation was made by the club's new vice-president, Fred. Hanham. Edwin Lonsdale and Hugh Graham also took part in the speechmaking. Samuel S. Pennock covered himself with glory in the cricket match, making six, two doubles and two singles. Everybody thought he was an old-timer but he assured them it was his first offense. The score follows: Florists—Dodds 4, Hammond 1, George Burton 9, Roberts 6, Pennock 6, Thatcher 5, Holker 1, Byes 2, total 34. Montgomery—Ewan 8, Neil Gardner 9, Fred Gardner 2, Carey 8, Draper 2, Beattie 2, Byes 5, total 35. There were some duck-eggs on both sides but we mercifully refrain from mentioning them—more especially as the writer happened to be one of them. G. C. W.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

In acceptance of the invitation extended by Waban Rose Conservatories this club visited the extensive and always-interesting rose houses at Natick on Saturday afternoon, October 28, and a characteristic welcome was given by Mr. Montgomery and his family and assistants. Much interest was manifested in the three houses of Wellesley rose which are a sight worth going a long distance to see and bear conclusive evidence of the prominent place this rose is about to take in the commercial cut flower list. It was seen, as was also Killarney, in own-root and grafted form, the latter showing much greater luxuriance and strength than when grown on own roots. Richmond also came in for special admiration, there being no question as to the splendid qualities of this notable introduction. The great house of American Beauties and the innumerable houses of Bride and Bridesmaid roses were found, as always, in unapproachable perfection and the object lesson in advanced rose culture was a valuable one for all who were so fortunate as to participate in this delightful trip. Refreshments were served in the big work-room by the ladies.

BOSTON CO-OPERATIVE FLOWER GROWERS' ASSOCIATION.

The annual meeting and dinner of the Boston-Co-operative Flower Growers' Association was held at Young's Hotel, Boston, Saturday evening, Oct. 28. About seventy-five gentlemen sat down to the festive board—all stockholders or stall-holders in the Park street market, and Messrs. W. J. Stewart, W. N. Craig and J. W. Duncan of the horticultural press as invited guests. President Stickel occupied the chair. The dinner having been duly despatched, an hour and a half was devoted to talks on pertinent topics by various gentlemen before beginning routine business of the corporation.

The first speaker was W. H. Elliott, who made appropriate allusion to the death of E. N. Pierce since the last meeting and gave some interesting notes of his recent visit to Porto Rico. William J. Stewart being next called upon, dwelt upon the need for stronger bonds of sympathy between the horticultural institutions and interests of Boston, setting forth the great individual and general benefits that would follow a policy of unselfish co-operation. F. R. Mathison also made a spirited address. W. N. Craig told of the marvelous growth of the Gardeners' and Florists' Club. He also called attention to the opportunities for the development of the plant growers' special industry in the immediate future. He named Euphorbia Jacquinella, Mexican Poppy, Nicotiana glauca, grown in a shady border, and Rosyscarlet larkspur as things that might be handled as cut flowers by the florists with profit.

J. W. Duncan spoke of Boston's possibilities, and highly commended the festive board as a means to a more united spirit, and Peter Fisher spoke approvingly on the same lines. Mr. Cameron made some practical suggestions as to greater efficiency in market management. E. A. Wood regaled the meeting with some spirited reminiscences. Alex. Montgomery spoke for the American Rose Society and urged all to contribute towards making the exhibition next spring an unparalleled success. A similar address was made by Peter Fisher on behalf of the coming exhibition of the American Carnation Society.

Other speakers were Messrs. Peirce, Nicholson, Jr., Christiansen, Stevens and Robinson. It was altogether a very harmonious and happy gathering.

FLORISTS' CLUB OF WASHINGTON.

The next meeting of the Florists' Club of Washington, D. C., will be held in Schmidt's Hall, 516 9th street, Northwest, Nov. 7, at 8 P. M. This will be Chrysanthemum night, when a good attendance and a fine exhibit of choice flowers are assured. The club at its last meeting decided to award certificates of merit to any new or meritorious exhibit of plants or flowers that may be shown at any of its meetings in the future. Growers of chrysanthemums are requested to send exhibits of flowers for Chrysanthemum night. They will be carefully handled and properly staged if addressed in care of the Secretary, Peter Bisset, Twin Oaks, Washington, D. C. The shipment should be so timed as to reach Washington on the morning of Nov. 7th—express charges prepaid.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual chrysanthemum exhibition of the Massachusetts Horticultural Society will open at Horticultural Hall, 300 Massachusetts avenue, Boston, on Thursday, Nov. 9, at noon, and will continue daily from 10 A. M. to 10 P. M., until Sunday, Nov. 12. This is the Society's greatest show of the year, and it is expected that the display on this occasion will be of unsurpassed brilliancy and magnificence. The interest in chrysanthemum growing is increasing year by year, and an additional interest has been recently manifested with the introduction of the wonderful productions of the Australian cultivators. Many of these new varieties will be exhibited for the first time at this show, and the rivalry for first place is expected to be keen.

In addition to the display of chrysanthemums there will be a fine showing of orchids, carnations and foliage plants. Fruits and vegetables are also included in the schedule and will attract as usual the interested attention of the visitors. To make the exhibition still more attractive, band concerts will be given in the afternoon and evening on Saturday and Sunday, from 3.30 to 5.30, and 7.30 and 9.30.

WM. P. RICH,
Secretary.

The Annual Meeting of the Massachusetts Horticultural Society for the election of officers and for the transaction of business will be held at Horticultural Hall, 300 Massachusetts Avenue, Boston, at twelve o'clock noon, on Saturday, November 18, 1905. The officers to be elected are: President; vice-president (for two years); treasurer; secretary; delegate to the State Board of Agriculture; trustee (for two years); four trustees (for three years); and a nominating committee of five members.

The election will be by Australian ballot and the polls will be open continuously between the hours of twelve, noon, and four in the afternoon.

(Several proposed amendments to the by-laws will be voted upon at this meeting.)

FRENCH GARDENERS IN LONDON.

The appearance of the annual Bulletin of the French Horticultural Society of London, reminds us of the existence of a very useful and prosperous society. Sixteen or seventeen years ago a few French gardeners resident in London conceived the idea of starting a society for the benefit of their countrymen who were employed in the gardens and nurseries around the great metropolis. M. George Schneider, then of Messrs. H. Veitch & Sons, Chelsea, a well-known French horticulturist, was elected president, and under his guidance the society has pursued a continuous course of prosperity.

The main objects are to find situations in England for young French-speaking foreigners—Belgians, Swiss, French, etc., and also to find situations on the Continent for young English gardeners who may desire to go abroad for the purpose of learning a foreign language, an accomplishment only too rare among our gardeners and nurserymen. Monthly meetings are held at which papers are read and an opportunity afforded of pleasant intercourse

with old friends. Every year in January a banquet is held to celebrate the foundation of the society, when English, French and other friends meet together in pleasant reunion. Last January the society was honored by M. Philippe de Vilmorin taking the chair, and a very enjoyable evening was spent at the Cafe Royal, Regent street, to meet so distinguished a chairman, who came over specially from Paris for the occasion.

The society possesses a useful and interesting library. It has over 600 members, many of them being eminent horticulturists on both sides of the Channel. The present issue of the Bulletin contains a capital portrait of M. Philippe de Vilmorin with a biographical sketch, rules, list of members, balance sheet records of monthly meetings and best of papers read by the members. A few titles will illustrate the scope of these papers, viz.: "Culture of Azalea indica," "The Best Climbing Plants," "A Journey in Ireland," "A Flower Show in Nice," "Notes in the Nurseries of Mr. Charles Turner, Messrs. Thomas Rochford and Rothberg."

AMERICAN INSTITUTE SHOW.

New York City was treated to an exhibition the past week, creditable alike in size and quality. The American Institute shows have shown a substantial increase each year and on this occasion the two acre floor space in Herald Square Hall was well filled. The centre area was reserved for the floral displays and these were flanked by enormous groups of ornamented foliage plants, conifers and bays beyond which were the vegetable, fruit, seed and miscellaneous entries.

For the first time in the history of New York chrysanthemum shows there was an adequate representation of trained specimen plants. The leading contributors in this section were Peter Duff, gardener to J. Crosby Brown; C. D. Schaeffer, gardener to Richard Mortimer and G. C. Rand. The time of writing it was announced unofficially that the cup offered by the Gardeners' Chronicle of America had been awarded to Mr. Schaeffer. His exhibit included standards and low trained specimens of enormous size and displaying great cultural skill. Mr. Duff's reputation as a plant grower was long ago established and in this case he was fully up to it. His specimens of Lady Lydia, white, and R. Hooper Pearson, yellow, were superb. The classes for single-stem-and-flower plants were well filled by D. E. Oppenheimer, Joseph L. Haworth gardener, S. Untermeyer, J. Featherstone gardener, and the F. R. Pierson Company.

The cut flower department was characterized by liberal contributions of flowers of enormous size. In many cases size was the most notable attribute of the blooms foliage and finish scaling low. There were, however, many beautiful, perfectly built flowers of old and new varieties. Such sorts as Col. Appleton and Merza held their own and did not suffer in the least by comparison with the newer varieties, but it was noticeable that these old favorites did not overshadow everything else by their abundance as in past years and the exhibits were of an unusually diversified character, the number of new varieties being very great. Wm. Duckham was fully up to

its reputation of last year. Mrs. Wm. Duckham was also excellent wherever seen and Mrs. D. V. West dominated the whites, her only rival being Beatrice May, which, as shown by Mr. Totty, was certainly unapproachable for elegance of form and finish. Thomas W. Head, gardener for the M. F. Plant estate, was the largest exhibitor in the cut specimen classes, staging no less than 370 long stemmed flowers. A. Herrington, C. H. Totty, Wm. Duckham and the F. R. Pierson Company were also extensive contributors.

Pompons were shown in larger quantities than ever before and attracted the attention of visitors to a degree sufficient to convince of the coming popularity of the hardy classes. The chief exhibitors were Chas. H. Rice, who showed a collection of bright colored seedlings, mostly single; Thomas Mehan & Sons, John N. May and R. Vincent, Jr., & Son. Chas. S. Smith showed a new hardy double white pompon named Prosperity.

The display of orchids was undoubtedly the most extensive and complete ever staged in this country. Lager & Hurrell's group comprised 359 plants in 103 varieties, all profusely flowered and arranged with consummate taste. In Julius Roehrs & Sons' collection were geatas, such as *Cypripedium insigne* Sanderae and Harefield Hall, and that beautiful hybrid, C. Maudiae. H. A. Siebrecht & Sons displayed phenomenal cattleyas in great profusion, not for competition, and Setis A. Borden, Fred Varden gardener, was represented by a lot of blooms of *Cattleya labiate*.

The groups of decorative stove and greenhouse plants were very extensive and with the conifers, bays, etc., furnished a fitting setting for the mass of color that filled the centre of the hall. As with the orchids, the main contributors in this section were well-known commercial firms. They were Julius Roehrs & Son, Siebrecht & Son, John Lewis Childs, Bobbink & Atkins and J. H. Troy. Among the most noticeable were seedling Begonia Rex plants of great beauty from Siebrecht, Lorraine and Rex begonias, dracaenas and crotons from Roehrs, cyclamens and Lorraine and Turnford Hall begonias from Lehnig & Winnfield and some new flowering begonias from S. Untermeyer. In the later was Ideala, a very promising bright-vermillion flowered gem. F. Weinberg showed a large collection of succulents. The ornamental nursery element was very active and each of the following-named houses put up veritable forests of choice conifers and allied specialties: F. R. Pierson Company, Cottage Gardens, Julius Roehrs & Son, Bobbink & Atkins and Siebrecht & Sons. It was unofficially stated that the Pierson Company won the coveted first prize.

In the cut flower section a most sensational exhibit was that of hybrids of *Nicotiana Sanderae* by Sander & Sons. The remarkable range of color running from white through blush and pink up to crimson and through lavender to purplish blue and the size and abundance of the individual blooms were the subject of much comment, and it was evident to wise judges that there are some surprises yet to come in the development of this prolific genus.

Carnations and roses were shown in fair quantity and excellent quality. Among the carnations staged by Cottage Gardens Lieut. Peary, Octoroon and Robert Craig showed up most effectively. My Maryland and Jessica from H. Weber & Son were all that could be desired. Fiancee, as shown by R. D. Foote, was an eye-opener to some of the doubters. Rudolph Fischer's Abundance looked as though it had a bright future ahead of it. Among the roses Pierson's American Beauties were without a rival. Thorburn & Co., A. T. Boddington Co. and others made fine exhibits of bulbs and seedsmen's sundries.

We cannot close this account without adding a word of appreciation for the kind courtesy so lavishly extended by Dr. Hexamer, the chairman of the committee in charge. He was ever-present, ever-patient and was essentially the right gentleman in the right place. The attendance was not what it should have been. The affair had not been adequately advertised and, besides, New York is at present too deeply engrossed in local politics to think of anything else.

THE CHRYSANTHEMUM SHOW AT PROPAGATING GARDENS, WASHINGTON, D. C.

Commencing with Wednesday, Nov. 1, the annual Chrysanthemum Show given by the U. S. Propagating Gardens, under the general supervision of Mr. George Brown, will be thrown open to the public. Through the courtesy of W. A. Furnage, the grower of this fine collection, our correspondent was shown through the exhibit the day previous. Mrs. Roosevelt, who always does the honor to view the exhibit each year, had just paid her visit. The flowers had been carefully timed in the blooming, and in the seventy-nine varieties grown not more than six were either too early or late to show to best advantage. From a commercial standpoint, the following are entitled to special mention:

In white, Mrs. Nathan Smith measured 16 inches over, and Ben Wells 17 inches; Silver Wedding and Yousell were also very fine. The latter is one of the earliest, and on this account would be a good one for the commercial grower. Among the very finest yellows, which seemed to be the prevailing color, were O. P. Bassett, Golden Gate, Cheltonii, Mrs. William Duckham, Henry Sinclair, Donald McLeod and Mildred, a sport which originated there, and Robert Halliday.

Leila Pilkins, Amorita, F. A. Cobbold, Brutus, Lou Dillon, Ziletto, Lord Alveston, Lord Hopeton, Dazzler and many others are worthy of mention, but want of time forbids.

SUFFOLK COUNTY (N. Y.) HORTICULTURAL ASSOCIATION.

The fourth annual exhibition of this society was held at Bay Shore, October 24, 25, 26, and was a decided success. William C. McCollom, gardener to S. T. Peters, secured twenty-four first and nine second prizes. He was closely followed by President William Wincott, Donald Sim and Charles Dumper. Certificates of merit were granted Guttman & Weber for Carnation Victory; Lager & Hurrell for orchids; and Charles H. Totty for chrysanthemums.

NEW JERSEY FLORICULTURAL SOCIETY.

The eleventh annual exhibition passed off without a flaw. About six hundred exhibits from twenty-seven exhibitors filled Berkeley Hall, East Orange, on October 30 and 31. The display, besides chrysanthemums with their setting of palms and bays, contained orchids in quantity from Lager & Hurrell, dahlias from F. R. Pierson Co. pompons from John N. May and carnations from A. J. Guttman. The 20 Cattleya labiata and Oncidium varicosum arranged by William Barr of Lowellville Park and Oncidium ornithoclycum, cypripediums and Vand-coerulea with a setting of fittonia, panicum and ferns by Arthur Bodwell were greatly admired. A novel feature was the collection of 100 colored photographs of the exhibits of chief merit of the society during the past ten months. A brief list of the awards follows:

Best group of chrysanthemums and foliage plants in 75 square feet—1st, S. M. & A. Colgate, gardener, W. Reid; 2d, William Runkle, gardener, D. Kingsgrab.

Best display of orchids in 35 square feet and best orchids in flower—1st, William Barr, gardener, A. W. Bodwell.

In chrysanthemum plants and cut flowers the majority of prizes were secured by John Crosby Brown, Peter Duff, gardener, with Stewart Hartsborn, A. T. Caparn, gardener, A. B. Jenkins, G. von Qualen, gardener, and S. M. & A. Colgate close competitors. In pompon chrysanthemums Miss M. Brown won first and F. H. Presby second. George Smith was the only exhibitor to get competitors for dinner table and secured the award. O. D. Munn, John Hayes gardener was first with specimen palm.

J. B. DAVIS.

EXHIBITION AT TARRYTOWN, N. Y.

The Tarrytown Horticultural Society has the backing, the men and the material to put up a creditable exhibition whenever it pleases. The show this week is a worthy successor to its predecessors. Music Hall is filled with handsome exhibits effectively placed. Our correspondent promises us a full account for next week. For the present we only wish to allude to the handsome plant and flower groups from the F. R. Pierson Company—not for competition—the elegantly arranged tables of dainty ornamental plants from William Scott, gardener to Joseph Eastman; J. Featherstone, gardener to S. Untermyer; and James Donald, gardener to H. F. Osborne; the elegant Lorraine and Turnford Hall begonias from William Scott, and a vase of Glenview chrysanthemums grown by the last named gentleman. This variety was introduced this year by the F. R. Pierson Company; it is a bronze, with nankeen reverse, a superb incurved blossom, and it is safe to assert that it would be difficult to find a vase of more perfect flowers, any variety, in any of this season's shows than the one we have mentioned.

Theo. Trevilian showed a very dwarf growing sport from the Pierson fern, which stands in about the same relation to the type that the stunted Japanese pines do to their forest relatives. If its character should prove

fixed, it looks like the beginning of a distinct type.

ST. LOUIS FLOWER SHOW.

Preparations for the great Flower Show under the auspices of the St. Louis Florists' Club, are proceeding satisfactorily. The committee in charge is as follows: Otto G. Koenig, chairman; Fred C. Weber, treasurer; Theo. Miller, auditor; Fred H. Meinhardt, superintendent; E. W. Guy, assistant superintendent.

A diagram of the hall is on file, with the space for every class mapped out, and tables as well as vases, and all accessories will be in complete readiness at least a day preceding the opening. The hall in which the exhibition is to be held, is the prettiest hall in St. Louis, located at 3806 Olive street, in a very fashionable part of the city. It is claimed that this show will be unexcelled from every point of view, and ample funds are available to pay for all premiums in full at close of show. Among the special premiums are the Shaw medal, the S. A. F. medals and a hundred dollar silver cup. From November 8 to 11 the latch strings will be out for exhibitors and visitors.

Any one who has not yet received a complete program and premium list, will please send for, and receive same by return mail.

TWO CALIFORNIA EXHIBITIONS.

The Menlo Park Horticultural Society opened its annual flower show in a great tent October 20, displaying the finest collection of plants and cut flowers in its history.

James L. Flood won the Holbrook cup for best display of ferns, and Christopher Smith cup for best display of chrysanthemums; J. E. Coryell won the memorial medal given by Lynch's Menlo Park Nurseries for best collection of decorative plants. Other awards were: Novelties, George A. Pope; begonias and coleuses, J. L. Flood; Liberty and Bride roses, Sidney Clack; American Beauty, J. F. Flood. Best collection of carnations, Frank Mills; J. L. Flood, Christopher Smith and W. J. Adams took the prizes in chrysanthemums. Thirty-six dahlias.—First prize, Timothy Hopkins; second, Geo. A. Pope. Twelve cactus dahlias.—First prize, D. V. Tuttle; second, J. L. Flood. Seedlings.—W. H. Crocker. Decorative show and pompon dahlias.—W. Kettellwell, gardener at Timothy Hopkins' gardens. Chrysanthemums under glass, 12 pink and 12 yellow.—Timothy Hopkins; 12 white, H. L. Goertzhals.

The San Raphael Improvement Club held a chrysanthemum show in the Opera House on October 21, and awarded prizes as follows:

Chrysanthemums, private gardens.—Best 12, John Jack; 12 white, Ralph Buehl; high recommendation, John Jack, E. C. Blix. Twelve yellow, E. C. Evans; high recommendation, John Jack. Open to all.—Twelve white, Mrs. J. Miller; high recommendation, Mrs. M. Miller. Twelve pink, T. R. Redmayne. Twelve yellow, Mrs. M. Miller; high recommendation, Paul Eckelman. Twenty-four dahlias (12 cactus and 12 show), John Jack. A most creditable exhibit was made by the Junior League Improvement Club, and the excellence of the gardens made the selection of prize-winners a difficult matter for the judges.

CHRYSANthemum SOCIETY OF AMERICA.

Work of the Committees.

Philadelphia, Pa., Oct. 21, 1905.

Jno. G. Perry, white, Japanese reflex, exhibited by G. A. Lotze, Glen Burnie, Md., scored 78 points, commercial scale.

No. 15, good yellow, Japanese reflex, exhibited by F. R. Pierson Co., Tarrytown, N. Y., scored 88 points, commercial scale, and 86 points, exhibition scale.

Boston, Mass., Oct. 28, 1905.

Roserie, silvery-pink, Japanese reflex, exhibited by Nathan Smith & Son, Adrian, Mich., scored 85 points, commercial scale. (Arrived too late for judgment Oct. 21.)

Cincinnati, O., Oct. 28, 1905.

Crocus, yellow, incurved Japanese, exhibited by Nathan Smith & Son, Adrian, Mich., scored 92 points, commercial scale, and 89 points, exhibition scale.

Lanona, white, interlacing reflexed Japanese, exhibited by Nathan Smith & Son, Adrian, Mich., scored 94 points, commercial scale, and 95 points, exhibition scale.

Chicago, Ill., Oct. 28, 1905.

Mary Mann, pink, incurved, exhibited by The E. G. Hill Co., Richmond, Ind., scored 96 points, commercial scale.

No. 1, pink, ends of petals silvery-white, incurved compact form, exhibited by H. W. Buckbee, Rockford, Ill., scored 83 points, commercial scale.

No. 8, light flesh pink, exhibited by H. W. Buckbee, Rockford, Ill., scored 89 points, commercial scale.

No. 2, pink, incurved, exhibited by H. W. Buckbee, Rockford, Ill., scored 88 points, commercial scale.

New York, Oct. 27, 1905.

Paul Dailledouze Seedling, pink, exhibited by William Duckham, Madison, N. J., scored 95 points, exhibition scale, and 94 points, commercial scale.

FRED H. LEMON, Sec.

Richmond, Ind.

GARDENERS' ASSOCIATION OF AMERICA.

This new organization held a meeting on November 1, in connection with the American Institute show in New York City, President John M. Hunter in the chair. Secretary C. E. Maynard informs us that there were 135 members present. An address by the president and the election of nine new members of the Board of Trustees was the only business transacted. Election of officers and reading of papers by prominent gentlemen was reserved for the Thursday session.

SHOWS IN PROSPECT.

Shreveport, La., fourth annual flower show, November 8, 9 and 10.

Seattle (Wash.) Florists Association, Christensen's Hall, November 15-18.

The Chrysanthemum Society of America in connection with the Pennsylvania Horticultural Society in Horticultural Hall, Philadelphia, November 7 to 11.

The New Haven County (Conn.) Horticultural Society in Music Hall, New Haven, November 7-9.

Massachusetts Horticultural Society, chrysanthemum show, November 9 to 12, Boston.

Worcester County (Mass.) Horticultural Society, November 9, Worcester.

Kansas City Flower Show, Convention Hall, November 13-18.

NOTES ON BRITISH PARKS AND GARDENS.

Read before the G. and F. Club of Boston by J. A. Pettigrew.

It may seem an easy task to relate what one has seen on a trip across the waters. So it appeared to me when I started for Europe early in July of this year. Your strenuous President took a mean advantage of my error when he extracted a promise from me that I would talk to you on my return about what I had seen during my rambles abroad.

I can now understand how the European travel fever is contracted. One trip simply serves to whet the appetite for more, and I should imagine that not before the third trip would the tourist's mind be in a fit condition to calmly observe and as calmly record his impressions and deductions. The sight-seer in Europe, (for on his first trip he is simply a sight-seer), is apt to rush here and there in the endeavor to see a great deal. So much is wonderful and new or strange to him that the mind is constantly appealed to and is kept working at high pressure. Often great bodily fatigue is experienced. The result is, that, in spite of notes to jog the memory, the mind has not retained as clear an impression as was expected. Some of you are experienced travelers. I would, however, say to those who cannot afford to have the European fever, but who would like to make one trip, or two trips abroad, go slowly and quietly. See only what you can give the time to see properly. Do not overtax your strength. Under such conditions the mind and imagination can work actively and be more vividly impressed and more richly stored with the treasure to be gleaned from the older civilizations.

After a delightful passage of seven days we entered Queenstown harbor with its quaintly pretty town situated on the sloping hillside. The hills enclosing the harbor are mostly owned by the British Government, and are used for military purposes. *Centranthus rubra*, however, by right of prior occupation and Nature's adaptation, greeted us with sheets of purple bloom which many of the passengers on the tender were fain to believe was heather. Of heather there was an abundance, but its softer, hazy color was overpowered by the decided color of the *centranthus*.

A stroll after dinner in the evening revealed the mild nature of the climate in this part of Ireland. *Fuchsias* (*Riccartonii*), wall-flowers, *antirrhinums*, *sedums*, ferns, etc., clothed cliffs, stone walls and slopes alike, while the cottage gardens were, as is usual in the British Isles, bowers of bloom.

At Fota, a few miles from Queenstown, is the seat of Lord Barrymore. Roughly speaking, the gardens and ornamental grounds contain about 100 acres. The entire plan of arrangement has been carefully studied. Excepting, possibly, the terrace gardens, everything speaks of Nature and simplicity. The ornamental grounds abound in

good things. Beautiful vistas of foliage and turf greet the eye at every turn. An island in a small lake is devoted to a collection of bamboos, the borders of the lake being planted with semi-aquatic plants. The effect is very good and the setting of the picture harmonious.

The mild and moist temperature of Fota admits of a much wider range in the selection of material for outdoor planting than obtains with us in New England. Among the most noticeable things in this connection are *Azaras escallonia*, *olearias*, *buddleas*, *fuchsias*, *oliantos*, *Benthamia fragifera* (resembling very much our *Cornus florida*), *Desfontanea spinosa*, *osmanthes*, *Acacia melanoxylon*, *colletias*, *Hymenanthera crassifolia*, *aristotellas*, *Drymus aromaticus*, *Caesalpinia japonica*, *Fabiana imbricata*, *Eurya latifolia*, *phillarias*, *eugenias*, *Carpentaria Californica*, *veronicas* and many others. Coniferous trees do very well. A very fine plant of *Pinus insignis* measures four feet in diameter. *Sequoia gigantea* is represented by several promising specimens about thirty or forty feet high. The broad-leaved evergreens, such as laurels and hollies, simply revel in the climate of Fota. In a shady hollow a rockery has been introduced, which is planted with ferns, where many of the choicest variations from the British species are to be seen. Many ferns from even more temperate climes also have been planted, among which may be noted *Dicksonia antarctica*, of which there are several specimens doing well.

The terrace gardens near the mansion were very gorgeous in their summer plumage of scarlets, blues, purples, yellows and whites; a very good example of the florid style of summer bedding. One wished that the treatment had been of a softer character, more in keeping with the simple beauty and quaintness of the facade of the building and the terrace walls.

While at Queenstown and Cork I eazed, in each place, a jaunting car for a trip into the country, and was fortunate in securing quick, intelligent men as drivers; in fact, in this capacity there seemed to be none but those who had well-defined opinions of men and things. Under similar conditions, a brighter or more genial lot of men it would be hard to find. My object was to get such impressions of agricultural conditions as could be obtained in a run of eight or ten miles, and through conversation with a few of the farmers. Though my field of observation was limited, and the time at my disposal short, yet I could not come to the conclusion that the Irish farmer, or cottier, of the neighborhood makes little of his opportunities. With splendid land under his control and one of the best markets of the world at his doors, he, by lack of thrift and by indolence, permits his advantages to be usurped by Holland and France. Butter, eggs, poultry, and many other products are shipped by these countries to England in enormous quantities, of which trade Ireland should have a large share.

In Dublin I took a jaunting car ride in Phoenix park. I had heard much of its beauty and its fine situation. I was much disappointed to find it little better than a pasture lot for cattle, at five to seven dollars per head. The park is a large one of 1750 Irish acres,

which I was told equalled 2500 English acres. The revenue for its support, I was informed, comprises \$40,000, which the government pays for the site of the vice-regal palace and the barracks, and \$700, the proceeds of the pasturage of twelve to fifteen hundred cattle. The result is that the park has a most unkempt appearance. The small trees and what have been fine hawthorns are ruined by the rubbing of the cattle. The open meadows and woodlands are tracked in every direction. No pruning of dead limbs or cutting out of dead trees seems to have been done. Thus a park that might be one of the finest in the British Isles is given up to ruin and desolation.

The Royal Botanic Garden at Glasnevin, a suburb of Dublin, has an area of 52 acres, and is mostly situated on a sandy knoll, where conditions are very unsuitable for the growth of trees and shrubbery; consequently, little of note that line is to be found there. There have, however, considerable glass and a fairly good collection of plants. Especially noticeable was a lot of filmy ferns in fine condition, among which were fine specimens of the Killarney fern (*Trichomanes radicans*). *Bougainvillea cyperii*, a semi-double, attracted my attention, as did *Haemanthus* *Katherina amaryllidea*, *Campanula isophylla*, very fine blue and hardy; *Begonia Rex*, Ne plus ultra, Our Queen and His Majesty. Fine plants were also to be seen of *Begonia* *President Carnot* and *Bowringiana*. When looking over the fine *Begonia* collection at this garden I wished that our Mr. Sander could have been with me. *Loebelia* *major* as a pot plant was very attractive, as was also *Trachelium ceruleum* and *ceruleum alba* (order *Campanulaceae*). *Campanula pyramidalis*, Veitch's strain, compact and fine flowered, as a pot plant was very good. Many other old plants were grown in pots. They were well grown, too, and demonstrated their value for decorative purposes in the greenhouse or conservatory. In an aquatic house was seen a fine lot of potted *cannas* of the new strains. Under the indoor cultural conditions the foliage and flowers were very finely developed, both in size and color.

The garden is noted for its large and fine collection of Alpine plants, which would require days to properly observe and describe. I simply had to content myself with wonder and admiration at their varied and beautiful forms. As I hurriedly passed along, Mr. Moore, the curator, unfortunately was absent. His absence, however, gave me an opportunity of meeting a horticultural graduate of the gentle sex, into whose hands I was consigned by the secretary, and who did the honors of the place with a charming mixture of intelligence, good nature and dignity.

Trinity College Botanic Garden is situated in the city of Dublin. It contains about 14 acres. The smoke conditions are rather severe on vegetation. Hollies, however, seem to find the location a congenial home, for many good specimens are to be found in the garden. Spring flowering bulbs are planted everywhere, and must produce rare effects in flower time. This might be expected, as Mr. Burbidge, the curator, has long been a student of

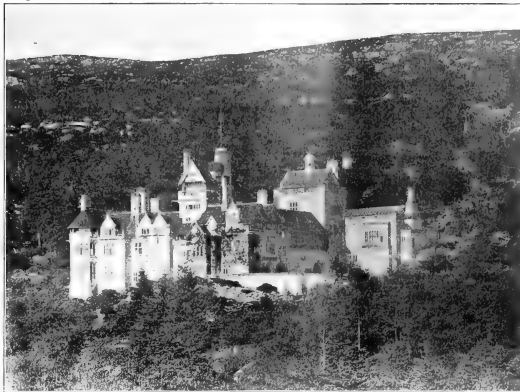
and a writer on bulbs. A rockery with a small collection of Alpine plants shows by its condition that this pretty and interesting class of plants has a warm place in his heart. Here I saw the beautiful rosette-like *Raymondia pyraeana* for the first time; a piece of rough wall admirably serves it for a home. Mr. Burridge, being away from home on a week-end vacation, greatly disappointed me, as I had anticipated much pleasure in meeting him.

The vacation habit, common to all classes, I found strongly entrenched in the British Isles. Forty years ago, during my experience as an under gardener in England, a radius of twenty miles would cover the extent of the peregrinations of myself and others of like standing, year in and year out. Now the "week end," with the help of cheap rates on the railroads, has changed all this. The "week end" is a week-end holiday, and is, moreover, a very elastic term. It may mean from Saturday evening until Monday morning, but it usually means a good deal more. It covers trips to the Continent, to the Lakes, to Wales, and to the Scottish hills. Tradesmen say there is too much of it, that it interferes with the payment of rent and grocery bills. I think this is a libel. The people who take the week-end holiday are not apt to be those who shirk payment of their bills; it is more likely that the rum shop is the cause for this wall of the landlords and grocery keepers. Rum is the curse of the British Isles. If my memory serves me right, the drink bill for the British Isles last year was \$800,000,000. Eight hundred millions taken from the people's food, housing, clothing and education, to say nothing of luxuries or pleasures! Were this money used in the proper channels, instead of being used for drink, we should soon cease to hear of the physical deterioration of the British. This is a digression. I could not, however, refrain from touching on the subject. The conditions of the drink traffic in the larger cities are such as to deprave men, women and children alike.

The country around Dublin is most charming. Howth, Kingston and Bray are right on the bay. From Bray head, a hill of some four or five hundred feet, a fine view of the bay can be had, with the Hill of Howth about six miles away in the distance, while between lies Kingston, in the hollow, with its fine old picturesque houses. Kingston is an older settlement than Dublin, from which it is distant about eight miles. The Danes held the coast at this point a few centuries ago, and two or three of their strongholds, now in ruins, lend additional interest to the scene.

At Kingston I took the Holyhead mail boat, and in three hours I stepped on Welsh soil and boarded the train for London. The scenery between Holyhead and Chester is just such as to tempt one to don a knapsack and wander through its mountain ranges. That it is a great resort for tourists is quite evident from the large amount of passenger business at each station.

At Chester, which was reached at five in the afternoon, I stopped for a day or two. Chester is one of the oldest towns in England. There is good evidence that it was a town of consid-



CRAGSIDE, ROTHBURY, ENGLAND
The Country Seat of Lord Armstrong

erable importance prior to its occupation by the Romans in the first century of the Christian era, and it is famed in song and story. Its walls make a continuous promenade of two miles, and are the only complete specimens of that order of fortification remaining in the British Isles. The ground around the walls upon which we stood has been deluged in blood. The Romans, the Picts and Scots, the Saxons and the Danes, have all fought for possession of the town. At a still late date the Parliamentary forces of Cromwell were kept at bay for two years by its hardy defenders. From a tower on the walls Charles the First had the mortification of seeing his army of relief defeated before his eyes on Rowton moor. The besieged, however, did not capitulate until twenty weeks later, after being reduced to the utmost straits. A walk around the walls of old Chester is replete with interest; on every hand are objects that connect the present with the past. The beautiful cathedral of Chester, founded by a Saxon king in 660, is within a stone's throw; nearby are the remains of Roman occupation, as evidenced by baths and altars; further on is the quaint old stone Dee bridge, built by command of Edward I, 1280. A fine stone bridge, built in 1832, 40 feet high, with a clear span of 200 feet, is one of the glories of the town. Still further on is Chester castle, hoary with antiquity, while everywhere are fine examples of timbered houses of the Elizabethan period. I have purposely dwelt at some length on Chester, for I think one of the pleasantest memories of my trip is laid within its walls, and I wish to commend it to you as a place worthy of a visit.

Near the Bridge of Dee I took a small steamer and sailed up the river for Eaton Hall, one of the seats of the Duke of Westminster. The hall is modern and stands on ground gently rising from the Dee. Broad vistas of lawn stretch out toward the river. No trees of great size are to be found, the

plantations being apparently of no greater age than fifty or sixty years. Beeches, oaks and limes predominate; a few *Cedrus Libani*, forty or fifty feet high, give promise of future greatness.

The gardens are in excellent condition. They partake largely of the old-fashioned style; hedges and cosy nooks abound. Climbing roses are everywhere. Dorothy Perkins especially. It was here that I first experienced English hospitality. The gardener, Mr. N. F. Barnes, gave me a hearty welcome, and placed himself wholly at my disposal during my visit. Mrs. Barnes being not one whit behind her husband in kindness. In the course of my conversation with Mr. Barnes I found that the English gardener, like the American park superintendent, has an unhappy time when he undertakes to do any thinning out of his trees or shrubs. I found, also, that the English gardener is very often trammelled in the matter of planting good things (in themselves) in unsuitable places, and that he cannot always plant things where, in his judgment, things should be planted. So it is not always fair to the gardener to lay upon his shoulders the blame for violations of the artistic which may be found in the place over which he has charge. It is shown the new bothy at Eaton Hall. It is a pretty two-story house, in the timbered style, of which the Cestrians seem so fond. Each gardener has a bedroom upstairs; a dining room, kitchen and a parlor occupy the lower floor. The place had an appearance of comfort. I was glad to see this improvement in the home life of the gardener. I found other estates on which the same improvement has been made. On many, however, the same old hovels exist as of yore, noticeably in the two botanic gardens of Dublin.

The English gardener labors under great disadvantage, as compared with other occupations. In the past forty years the wages in England of mechanics, masons and carpenters, for instance, have increased over 75 percent,

while the wages of under gardeners have increased only about 35 percent. Thus, while a carpenter or a mason is able to earn 50 shillings per week, an under gardener can earn only 18 or 20 shillings. Again, in the hours of labor, the gardener must work an average of ten or ten and one-half hours per day, while the mechanic is required to work only nine hours per day. This state of affairs offers no inducement to bright young men to enter the gardening business; better wages and a more promising field take them elsewhere. The result of this is, according to my observation, that in England gardening as a business is in a decadent condition. The young men engaged in it must, under these conditions, average lower in intelligence and ambition than obtained 25 or 30 years ago.

Mr. George Nicholson wrote me, at Queenstown, to delay making any plans until my arrival in London, when he would be glad to assist in mapping out a route, and, what was better, offered to accompany me. This was beyond my expectation, and I gladly changed the plans I had made and posted to London. He appeared bright and early at my hotel, the morning after my arrival. You will be glad to hear that Mr. Nicholson is looking remarkably well, and I can vouch for his physical endurance, remembering how he tested mine. What more could I desire than Mr. Nicholson's congenial companionship? Who could I know the places, the men and the things I wanted to see better than he? We took a long bus ride as a starter, which I think is a very good thing to do in visiting a strange city, and had I not been favored with a guide, I should have sat next to the driver of the bus (as afterwards I learned to do); they are mostly good fellows, and can spot a seeker after information. The little tip given at the end of the trip is usually well earned. So much can be seen from the top of a London bus that a day so spent is well spent.

The first thing that impresses a visitor to London is the manner in which street traffic is regulated; it is simply perfect. Every vehicle seems to be a part of a complex machine, running, in spite of the enormous traffic, without a hitch or jar. There is only one rule, keep to the left; the drivers obey it implicitly. At the street crossings the police regulate the traffic by alternately opening each street for crossing. The understanding between drivers and police is quite clear.

That London is a clean city is quite apparent. The city house-cleaning is of the first order. One feels even some compunction in throwing a cigar stump into the gutter, they are so clean. This cleanliness is not confined to one locality, but extends over hundreds of miles of streets. The even grade of the sidewalks is a noticeable fact; there are no jogs or depressed crossings for vehicles, everything is on a level grade. On streets level or nearly so, by locating the gutter catch basins at some distance away from the cross-ings, the street crossing grades are brought to a level with the sidewalk grade, making street crossings and walks on a perfectly even grade. It is astonishing how far the regulation of these seemingly simple matters go towards making city life pleasant, and how much it is responsible for the

fact that London is considered to be one of the best governed cities in the world.

While in London I called upon William Robinson, to whom I had a letter of introduction from Professor Sargent. He kindly invited me to visit him at Gravetye Manor, located in Surrey, about thirty miles from London. Gravetye is an old Saxon word meaning a house in the hollow. The name, however, does not designate correctly the position of Gravetye Manor, which is placed on a gently sloping hillside overlooking the course of a stream, which has been dammed lower down, thus forming a very pretty sheet of water in the valley, to which the long reach of lawn slopes in pleasing undulations. Wooded hills rise on the opposite side of the water, while to the left a pretty view of valley is obtained. Behind the house the ground rises and is covered with plantations of pine.

Gravetye is a fine old manor house of the 17th century. Mr. Robinson has made many additions and improvements, both to the house and the grounds. The wing which has been added to the house has been done with such rare taste and fidelity to harmony that it seems a part of the old house itself. The material of the building is a soft native sandstone, even the roofing is of sandstone flags. For the roofing of the new addition the country was scoured to secure weathered flags from old barns and houses. In the restoration of the interior the same care and good taste has been displayed in blending the new with the old.

Mr. Robinson would have done much for gardening had he written nothing more than *The English Garden and Wild Gardening*. He has, however, done much more, and, what is better, has put into practice at Gravetye the principles he has so earnestly taught in his writings. In the construction of a terrace garden old weathered flags were obtained with which to pave the walks. The beds are arranged in an old-fashioned style and planted with old-fashioned flowers. Roses predominate, of which Mr. Robinson has a large collection. A pretty feature of the garden is *Tropaeolum speciosum*, blooming freely in gorgeous clusters, as are also wall plants, which are encouraged to colonize. Beyond the terrace garden is a cosy ramble, the borders of which abound in good shrubs, herbaceous plants and bulbs. Beyond is situated the walled vegetable and fruit garden. The sheet of water in the valley is bordered by a walk, along which the planting of shrubs and herbaceous plants has been done in a manner to give a very natural effect. The same may be said of the shore line, at which water lilies and other aquatic and semi-aquatic plants have been planted. The atmosphere of the entire place is restful, quaint and beautiful, on natural lines. The absence of variegated and other abnormal forms of vegetation is conspicuous, as might be expected. The estate comprises about 400 acres, some of which is old woodland. A large part has been planted by Mr. Robinson with pines (*Pinus sylvestris* and *Pinus laricio*), which show excellent growth, some of them being twenty or more feet in height. Our white pine (*Pinus strobus*) has proved a failure, which Mr. Robinson regrets very much. Many

grew well at first, then suddenly died off.

At the close of a very enjoyable day my host drove with me to the station. On the way he pointed out a railroad bank, on which he scattered the seed of Spanish broom a few years ago, now a sheet of yellow bloom as a reward for the forethought and public spirit of the planter.

The love of flowers is innate in the heart of an Englishman. The same may be said, only in a lesser degree, of the Irishman, the Scotchman and the Frenchman. There are few who have not a garden, or at least a window box. Along the roadside or in country towns and villages, where the houses are often built on the line of the road, a narrow strip of space will be stolen from the sidewalk and planted with climbers to cover the cottage walls. This love for flowers by all classes contributes in a great degree to the charm and beauty of English homes. In most parts of England trees are encouraged to grow in the meadows and hedge rows. Even farmers will call your attention to their trees, to their fine size or appearance, and to how much they add to the beauty of the landscape. When such a spirit as this is abroad in a land, what wonder that it calls for the admiration of travelers!

I saw a goodly number of fine trees. At Lannercost Priory, Cumberland, are the finest sycamore trees I ever beheld, many measuring four to five feet in diameter. This tree behaves badly in the States and gives no intimation of its qualities. The Long Walk at Windsor Castle is shaded by handsome English elms. At Ravensworth Castle, Durham, are good beeches; one I measured has a spread of 95 feet. At Naworth Castle, Cumberland, are grand oaks, which must have been old when belted Will Howard was warden of the marshes.

At Brinkburn Priory, in Northumberland, a lot of silvery-leaved firs (which I could not determine), three to three and one-half feet in diameter, rear their heads to a height of ninety or one hundred feet. A plant of *Clematis montana*, on the Priory walls, measures fifty-four inches around the stem. It might have been planted by the Cistercian monks who founded the monastery.

In Anthony Waterer's nursery I saw a magnificent specimen of the Weeping Beech, at least sixty feet in diameter of spread of branches. I ought not to stop at this single reference, when so many good things are to be found there.

The forest of Fontainebleau, thirty miles from Paris, has an area of 42,000 acres, in which fine oaks and beeches abound. Of course, everybody knows of the Burnham beeches. There are still many well shaped specimens to be found back in the woods that will well repay the trouble of hunting them up. The old pollarded and decaying trunks are magnificent even in their ruins and recall a long-distant past.

I will close with a reference to the White Willows of Warwickshire, called regalis in the catalogues, but which Professor Sargent says is the typical *Salix alba*. How beautifully their silver foliage lightens and softens the landscape! When once seen they are not apt to be forgotten.

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BALTIMORE WINS FIRST SERIES.

The florist bowling teams of Baltimore, Philadelphia and Washington met on the Baltimore alleys on October 27th for three games in the Philadelphia cup series of six games.

A good time was had and over 50 bowlers and rooters attended. After the battle royal, which was won by the Baltimore team with a score of 2603, an excellent menu was served by Caterer Frank Wolf. F. G. Burger acted as toastmaster and P. B. Welsh, president of the Baltimore Gardeners' Club, welcomed the guests in appropriate words. The captains of the teams, Messrs. Ernest, Habermehl, Seybold, Watson and others, spoke on the subject of bowling inter-city match games and encouraging the social feature of the craft. The Pennsylvania Horticultural Society and the Philadelphia bowlers invited the Washington and Baltimore florists to attend the Philadelphia show on November 8th and bowl the remaining three games. The hospitable Quaker City boys have always made this event a great success.

The names and scores made in Baltimore are as follows:

Philadelphia.			
1st game.	2d game.	3d game.	
Habermehl	140	195	156
Adelberger	134	142	191
Watson	110	207	188
Blind	206	182	191
Connors	171	134	201
	761	860	927

Total, 2548.

Washington.			
Cooke	207	151	172
McLennan	158	204	177

Simmonds	138	140	140
Ernest	137	154	160
Campbell	155	151	153

Total 2397 795 800 802

Baltimore.

Richmond	170	192	180
Boone	152	206	128
Kramer	162	191	172
Kreh	166	157	181
Seybold	171	199	176

Total, 2603. 821 945 837

CLUB AND SOCIETY NOTES.

The annual ball of the Newport Horticultural Society will be held Tuesday evening, Dec. 5.

The Clinton Horticultural Society, of Keene, N. H., has been reorganized with the following officers: President, John Stevens; vice-president, John Smart; secretary, John Bennett.

The Kentucky Society of Florists presents an attractive premium list for their chrysanthemum show on November 7—11, and a program for entertainment that should insure a large attendance.

The Missouri State Horticultural Society will hold its forty-eighth annual meeting at the Coates House, Kansas City, Mo., December 28, 29, 30. The program includes an address from some prominent horticulturist at each session, the evening lectures to be illustrated. Premiums of \$100 will be given on apples.

Next week, November 7th to 11th, will be stirring times in Philadelphia.

The flower show: the Chrysanthemum Society; the great bowling match between Philadelphia, Baltimore and Washington; the Florists Club's President's inauguration; the lecture by Dr. Roberts on "The Influence of flowers in the Sick Room"; the influx of visitors, and many other items, will make it a memorable occasion. Most of us are tuned up and hope to be able to take care of the onerous responsibilities coming our way. Thomas B. Meehan, our new president, says he will be on deck all right, busy man though he be. G. C. W.

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UNESTABLISHED PLANTS

Dendrobium Phalaenopsis Schroederianum \$12.00 dozen

SEMI-ESTABLISHED PLANTS

Odontoglossum Granda, 4 and 5 bulbs	12.00 dozen
Odontoglossum Crispum, 2 to 4 bulbs	12.00 "
Dendrobium Wardianum Giganteum, 4 to 6 fine bulbs	12.00 "
Dendrobium Nobile, 6 to 9 bulbs	12.00 "
Lycast Skinnerii, 2 and 3 bulbs	10.00 "

ESTABLISHED PLANTS

Odontoglossum Granda, 6 to 9 bulbs	18.00 "
Odontoglossum Rosell Magus, 20 to 25 bulbs, 4 to 6 leads	15.00 "
Dendrobium Nobile, 20 to 40 bulbs	6.00 each
Cattleyas Intermedia, 8 to 12 bulbs	15.00 dozen
Cattleyas Labiata, 5 to 7 bulbs	15.00 "
Cattleyas Mossii, 5 to 9 bulbs	15.00 "
Cattleyas Trianae, 6 to 8 bulbs	15.00 "

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Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. At our own retail sales are any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the buyers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers, its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carnation pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will outbloom that popular variety, Mrs. M. A. Patten three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations and are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

**Fieldgrown plants from ground,
\$15.00 per 100.**

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WIRES CAN BE BURIED.

"The disfiguring telegraph and telephone poles have been waxing more and more aggressive every year along country and village roads," says an editorial in the November Country Calendar.

"The elms that glorify New England village streets are ruthlessly desecrated, the branches lopped off, or entire trees murdered, to put up a naked and wire-burdened galleys of the Anglo-So-and-So Telegraph Company. The companies have been in the habit of explaining that it cost too much to bury the wires. We notice, however, that one large telegraph and telephone company has revised its calculations on this subject. The New England Company is burying its wires between New York and Boston. Undoubtedly the increasing price of the larger poles, necessary to carry the burden of a hundred miles or more, has led to this move. Let us hope that this method will prove successful in every way, and that these gaunt reminders of haste and worry will gradually disappear from the countryside."

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Choice Evergreens

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Texas Mistletoe.

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Now is the time to plant trees, shrubs, vines, roses and fruits. Send for catalogue. Address

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ELIZABETH, N. J.

CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
HIGHTSTOWN, N. J.

CYCLAMEN PLANTS

GIGANTEUM STRAIN

Seen taken of only selected flowers and well-built stock. None better.
3-in., \$7.00; 4 in., \$12.00; 5-in., \$65.00 per 100
Seed of above strain, new crop, \$5.00 per 1000. Try it.

C. WINTERICH, Defiance, Ohio.

DON'T YOU KNOW WE HAVE THE PRETTIEST BASKETS IN THE MARKET!

Buy your supplies from the enterprising florist supply house.

J. STERN & CO.

1928 GERMANTOWN AVENUE, PHILADELPHIA.
Catalogue Free for Postal.

THE FLORIST'S SUPPLY HOUSE OF AMERICA.

When you need Florist's Supplies order from H. Bayersdorfer & Co., the Florist Supply House of America.

OUR POMPEIAN WARE has created instant success. You want to have it. And you will order more.

BEECH SPRAYS In Brown and Green for decorations are an appropriate article to have. Because they can be used more than once, scores—yes hundred of times if you are careful.

RUSCUS WREATHS a new and attractive wreath for funeral effect.

SMILAX TRIMMED WITH FLOWERS

will make a profitable seller. New and effective.

WREATHS French Red Immortelle made in American style for Xmas are gaining a strong hold among the trade. Why not try them. Our Magnolia, Laurel, Beech and Holly Wreaths prepared in Green and Brown are enjoying an excellent demand.

BASKETS in endless variety and shapes are to be had. See our illustrated list.

We have everything in supplies. Send us your orders, we can take care of them.

SEND FOR OUR CATALOGUE

H. BAYERSDORFER & CO.

56 North 4th Street, Philadelphia

Koral

SCRIPT LETTERS

(Patented)

3 1-2c Each

This Company has in stock at all times, or can make to order at short notice, all the Script words in English or German Text, Society Emblems, etc.

Koral Manufacturing Co.

26 Hawley Street, Boston, Mass.

Fall Advertising

IS RIPE AND

Ready to Pick

Florists

Out of
Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York

In writing advertisers, mention Horticulture

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

**Theatre and Steamer Orders
MADE UP AND DELIVERED**
Usual Commission on Transferred Orders.

WM. H. DONOHUE

2 West 29th St., New York City
Telephone 204 Madison

DETROIT

**John Breitmeyer's
Sons**

COR. MIAMI AND GRATIOT AVES.
DETROIT, MICH.

**Artistic Designs
High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

A. Gude & Bro.

FLORISTS

1214 F ST., WASHINGTON, D. C.

**Geo. H. Cooke
FLORIST**

Connecticut Avenue and L Street
WASHINGTON, D. C.

**FRED C. WEBER
FLORIST**

4326-28 OLIVE STREET ST. LOUIS, MO.
Established 1873
Long Distance Phone Bell Lindell 676

BOSTON FLORIST LETTER CO.
Manufacturers of FLORIST'S LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 1/2. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

WILLIAM J. BOAS & CO.
MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples

In writing advertisers, mention Horticulture

REED & KELLER
122 West 25th St., New York
Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware, Decorative Greens and Florists' Requisites.

Easter Lilies

\$15.00 Per Hundred

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

1217 Arch St., - PHILADELPHIA

Store Open 7 A. M. to 8 P. M.

In writing advertisers, mention Horticulture

CHRYSANTHEMUM

SEASON NOW ON

Can supply large quantities on short notice. Best varieties at reasonable prices.

Telephone 6268-6267 Main

WELCH BROS.
15 Province St.
BOSTON

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Av., CHICAGO

In writing advertisers, mention Horticulture

Weiland & Risch

Leading Western Growers and Shippers of

Cut Flowers

59 Wabash Ave., - CHICAGO

Long Distance Phone Central 870.

In writing advertisers, mention Horticulture

VAUGHAN & SPERRY

Wholesale

Commission Florists

If you wish to buy or sell, see them first
PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

In writing advertisers, mention Horticulture

CHRYSANTHEMUMS

CARNATIONS

W. J. Baker, 1432 So. Penn Sq.
PHILA.

In writing advertisers, mention Horticulture

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids
Valley outlets and all Cut Flowers

W. SMILAX, EASTER LILIES, VALLEY

Wholesale
Florist

W. E. McKISSICK

1221 Filbert St.
PHILADELPHIA

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Oct. 31		Oct. 31		Oct. 25		Nov. 2	
ROSES								
Am. Beauty and Edgely Fan. & Sp.	25.00	to 35.00	25.00	to 35.00	25.00	to	20.00	to 25.00
Extra	18.00	to 20.00	15.00	to 19.00	20.00	to	10.00	to 16.00
No. 1.....	10.00	to 15.00	10.00	to 12.50	12.00	to 15.00	6.00	to 8.00
Lower grades.....	3.00	to 5.00	3.00	to 8.00	6.00	to 8.00	2.00	to 4.00
Bride & "Made-Fan. & Sp.	8.00	to 11.00	5.00	to 6.00	5.00	to	5.00	to 8.00
Extra.....	4.00	to 6.00	3.00	to 4.00	4.00	to	4.00	to 6.00
No. 1 and Lower gr.	2.00	to 4.00	.....	to 2.00	2.00	to 3.00	1.00	to 2.00
Liberty, Fancy & Special.....	8.00	to 12.00	5.00	to 6.00	6.00	to 8.00	5.00	to 8.00
Ordinary.....	4.00	to 6.00	2.00	to 4.00	2.00	to 4.00	2.00	to 4.00
Carnot and Kaiserin.....	8.00	to 10.00	.....	to 6.00	6.00	to	6.00	to 8.00
Ordinary.....	4.00	to 6.00	2.00	to 3.00	2.00	to 4.00	1.00	to 2.00
Golden Gate, Chateau, Fan y.	3.00	to 10.00	5.00	to 6.00	.....	to	4.00	to 6.00
Ordinary.....	3.00	to 1.00	3.00	to 4.00	2.00	to 3.00	2.00	to 4.00
CARNATIONS								
Fancy Class.....	1.00	to 5.00	3.00	to 4.00	1.50	to 4.00	2.00	to 3.50
General Class and Lower grades.....	1.00	to 2.00	1.50	to 2.00	.75	to 1.00	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	40.00	to 50.00	.....	to 40.00	40.00	to 50.00	.....	to
Law of the Valley.....	2.00	to 4.00	3.00	to 4.00	2.00	to 4.00	3.00	to 5.00
Chrysanthemums.....	6.00	to 25.00	6.00	to 20.00	6.00	to 15.00	6.00	to 12.00
Violets.....	.50	to 1.00	.25	to .50	.25	to .50	.35	to .50
Adiantum Cuneatum.....	.50	to .75	.75	to 1.00	1.00	to .....	.50	to 1.00
Crowns.....	.....	to .....	.....	to .....	.....	to .....	.....	to
Smilax.....	10.00	to 15.00	12.50	to 15.00	15.00	to	8.00	to 12.00
Asparagus Plumosa, strings.....	25.00	to 3.00	25.00	to 50.00	35.00	to 50.00	35.00	to 50.00
Sprenger, bunches.....	25.00	to 35.00	25.00	to 50.00	25.00	to 50.00	20.00	to 50.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

roses and
Carnations
A Specialty.....

WHOLESALE
GROWER OF

CUT FLOWERS

'MUMS, BEAUTIES, VALLEY

Wholesale Florists

PHILA. CUT FLOWER CO. 1516-1518 SANSOM ST., PHILA.

Flower Market Reports.

BOSTON There has been a slight improvement in the market during the past week after an exceedingly dull month. With the coming of the cold wave and the going of chrysanthemums, prices for carnations and roses will soon increase. The supply of these flowers is normal, but the quality still holds good.

After a few weeks **BUFFALO** over-supply and dullness in business, the market has again gotten back to its normal condition. Cold and cloudy weather beginning last week caused a scarcity on everything. The effect could plainly be seen on Beauties and Teas, small buds only to be had. Carnations scarce and demand large, prices somewhat advanced. Chrysanthemums of good quality moving fifty per cent. better than previous weeks, and select stock bringing good money. The early white varieties, being about gone, and the late just coming on, caused white stock to be a little scarce, as floral work made large demand for medium stuff. Select Bridesmaids, Brides and Liberties not being plentiful and violets shortening up considerably, made an advance in prices of both. Valley, fine quality, moving fair, green goods still abundant.

CHICAGO Judging from the boom of Monday, we expected a busy week, but through reasons unknown to the trade, business fell away entirely. Prices of stock have advanced to their highest known limit for this time of the year, though the supply is sufficient to meet the demands. Beauties, Liberties, Kaisersins, Bridesmaids and Brides are now in their prime. Some very fine Uncle John and Richmond roses are on the market, but only in limited supply. With the approach of the flower show next week we must expect a dull time, as business is generally dead during an occasion of this kind.

CINCINNATI Since last report business has improved both in trade and stock. Chrysanthemums are arriving in large quantities and excellent condition and meet a ready sale at good prices. Violets are as yet scarce and prices high. For the past week most of the retail stores have been busy with work for funerals and weddings.

INDIANAPOLIS With the exceptional price of funerals and wedding decorations retailers report trade as only fair, due to unseasonable weather. The rose market is good, the better grades being taken as soon as offered. Carnations sell well, the fancy stock bringing good prices. Chrysanthemum trade is satisfactory, large quantities arriving but no glut. Recent frosts have spoiled outdoor stock which ought to improve tone of market.



FANCY OR DAGGER

FERN No. 1 STOCK,
only 75c per 1000
GALAX, Brilliant bronze or green,
75c per 1000

Use our laurel festooning for your decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample cut on application, we make it daily, gathered fresh from the woods. Hand made, full sizes, 1c, 5c and 6c per yard. Once used, always ready. Branch Laurel, 35c per large bundle. (Finest time by the pound or made into festooning when desired.)

CROWL FERN CO., MILLINGTON, MASS.

LOUISVILLE Business conditions last week continued very good with stock averaging a little short. Chrysanthemums sold surprisingly well and were of excellent quality. Carnations and roses came in in good quantity. Other stock was about up to expectations.

MINNEAPOLIS AND ST. PAUL Business is a little at a standstill owing to the recent cloudy weather.

What demand there has been for weddings, funerals, etc., has far exceeded the greenhouse supply of the Twin Cities. Brides and Bridesmaids are improving. Kaisersins are good, Beauties are scarce. In carnations Enchantress is good, and Lawson, Flora Hill and Queen are getting bigger and better. Early chrysanthemums are coming in. Violets are slow because of the late season and dark weather. Smilax, ferns and asparagus plumosus are growing in good quantities, and find a steady market.

NEW YORK The cut flower trade of this week has been rather irregular, some days developing a brisk call for certain specialties, other days being generally dull. Cattleyas have experienced a stiff advance, and there is a decided upward movement in price of violets. All roses of the better grades are doing better than of late. The notable event of the week in the wholesale section was the opening of Thomas Young's new place at 43 W. 23rd street, with John N. May among the consignors. The rose, Mrs. Oliver Ames, which is largely grown by Mr. May, seems to be gaining rapidly in popularity among the New Yorkers. Its soft, pleasing tint makes it very useful in combination with delicate colored flowers in design work. Our price quotations on chrysanthemums are \$2 to \$50—quite a wide range. Readers will understand that the 50 cent kind are few and far between, and that the great bulk of the receipts keeps well within the limits of \$4 to \$12.

PHILADELPHIA Supplies shortened up very considerably last week, the cool weather having destroyed pretty much all outdoor factors except cosmos and hardy chrysanthemums. This had its natural effect on the market and prices stiffened all along the line. Beauties especially, were in better demand, and were of fine quality and plentiful. White roses shared the stiffening process more than pink, as the former came in largely to fill the gap caused by the lack of other white for funeral work. The carnation cut fell off about fifty per cent. on account of the cool weather. The best coming in at present are Enchantress, Queen, Lieut. Peary and Queen Louise. Stroud is sending in some very fine Flances. Chrysanthemums have improved; not nearly so much poor stock; sales all along the line were much more satisfactory. Eatons both yellow and white, Bonafon, Appleton, Alice Byron and Pink J. K. Shaw, are especially fine. Some prize Eatons brought as high as \$5.00 per dozen. In violets the best double at present is Lady Campbell. Singles are good and prices have improved slightly. Orchids and gardenias normal, both up to supply and demand. Cattleyas and dendrobiums are a little scarce but there are enough of others to make up.

APPRAISERS' DECISION. According to a decision of the U. S. board of general appraisers, all plants which retain their verdure through all seasons are to be classed as "evergreens." The board holds, therefore, that "seedlings of such plants as the Aucuba japonica, the Rhododendron ponticum and the Kalmia latifolia are dutiable at \$1 per 1000 and 15 per cent. ad valorem," and not as nursery stock at 25 per cent. ad valorem, as found by the appraiser at New York.

The decision of the board is that the term evergreen, as applied to customs laws, cannot be limited to such plants as the box, the pine and conifers, as generally understood, but must include all evergreens, large and small, whether they are hardy or not in the United States or in any particular locality.

The advertisement of California field-grown roses in this issue should interest those who believe that our own country is good enough in all respects to produce all the roses we need and eventually better ones than have ever been supplied from foreign sources. We hope our readers will give this California stock a test, and if they find it to be as good as we have reason to believe, its future is assured.

Bunch asparagus is often badly cut up.

Decorating Evergreens, etc., at Wholesale
Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Len-cothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Plants.

Everything in Season.
THE KERVAN COMPANY
20 West 27th St., New York.

E. A. BEAVEN
Wholesale Dealer in
SOUTHERN WILD SMILAX
and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.
EVERGREEN, ALA.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

EVERYTHING SEASONABLE IN
CUT FLOWERS

EDWARD REID, Wholesale
1256 Ransstead Street, PHILADELPHIA
Store Closes 7 P. M. During October

FRANK MILLANG

Wholesale Commission Florist

COOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 299 Madison Sq. Open 6 A. M. to 5 P. M.

In writing advertisers, mention Horticulture

FORD BROTHERS

48 West 28th Street, NEW YORK

FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

Telephone, 3870 or 3871 Madison Square.

The only house
handling the New
Red Carnation**"Victory"**To be disseminated 1906. Also a complete
line of choicest flowers.**ALEX. J. CUTTMAN**

WHOLESALE FLORIST

43 WEST 28TH ST. NEW YORK
Telephones 1664-1665 Madison Square.

JOHN I. RAYNOR

Wholesale Commission Florist

SELLING AGENT FOR
LARGEST GROWERSA full line of Choice Cut Flower stock for all purposes. Comprises every variety
grown for New York market, at current prices

TEL. 1908 MADISON SQUARE

49 W. 28 St., New York City

Walter F. Sheridan

Wholesale Commission Dealer in

Choice Cut Flowers

39 West 28th Street, New York

Telephone: 902 Madison Sq.

HEADQUARTERS FOR NOVELTIES

ORCHIDS A SPECIALTY

THE HIGHEST

GRADE OF

ALWAYS

ON HAND

BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

JAMES McMANUS, Telephone 737 Mad. Sq. 50 W. 30th St., New York

WM. GHORMLEY

Wholesale Commission Florist

57 West 28th Street - - - NEW YORK

FINEST ROSES and VIOLETS

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the
year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones: 2200, 2201, Madison Square

Write for Current Prices

In writing advertisers, mention Horticulture

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Oct. 28 1905		First Half of Week beginning Oct. 30 1905			Last Half of Week ending Oct. 28 1905		First Half of Week beginning Oct. 30 1905	
Roses									
Am. Beauty, fan and sp.....	20.00	to 25.00	20.00	to 30.00					
" extra.....	10.00	to 15.00	10.00	to 15.00					
" No. 1.....	4.00	to 6.00	6.00	to 8.00					
" Lower grades.....	1.00	to 3.00	1.00	to 3.00					
Bride & 'Maid, fan and sp.....	5.00	to 6.00	5.00	to 8.00					
" extra.....	3.00	to 4.00	3.00	to 4.00					
" No. 1 and lower grades.....	.50	to 1.50	1.00	to 2.00					
Liberty, fan, and sp.....	6.00	to 10.00	6.00	to 12.00					
" Ordinary.....	1.00	to 4.00	1.00	to 1.00					
Carnot and Kaiserin, fancy.....	3.00	to 4.00	5.00	to 6.00					
" Ordinary.....	.50	to 2.00	1.00	to 2.00					
Golden Gate, Chateaux, fancy.....	3.00	to 4.00	5.00	to 8.00					
" Ordinary.....	.50	to 2.00	1.00	to 2.00					
Carnations									
Fancy Class.....	1.50	to 2.00	2.00	to 3.00					
General Class and Lower grades.....	.75	to 1.00	.50	to 1.00					
Cattleyas.....	30.00	to 40.00	40.00	to 50.00					
Lily of the Valley.....	1.00	to 3.00	3.00	to 4.00					
Chrysanthemums.....	4.00	to 25.00	2.00	to 50.00					
Oncidium.....	2.00	to 3.00	2.00	to 3.00					
Lilies.....	6.00	to 15.00	6.00	to 10.00					
Violets.....	.30	to .60	.75	to 1.50					
Adiantum Cuneatum.....	.25	to .50	.75	to 1.00					
" Crownatum.....	.50	to 1.25	1.00	to 1.25					
Smilax.....	8.00	to 10.00	5.00	to 10.00					
Asparagus Plumosus, string.....	20.00	to 35.00	25.00	to 35.00					
" Sprenger, bunches.....	5.00	to 10.00	10.00	to 25.00					

JOHN YOUNG

Wholesale FLORIST

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

Lilies. Renowned Cottage

Garden Carnations.

Edward C. Horan

Wholesale Florist

55 WEST 28th ST.

Tel. 1462 Madison Sq.

New York

TRAENDLY & SCHENCK

WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round. Send for quotations on fall orders.

Tel. 798-799 Madison Sq.

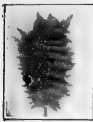
44 West 28th Street. New York City

FLORISTS OUT OF TOWN

Taking Orders for Flowers to be Delivered
to Steamers or Elsewhere in New
York can have them delivered in PLAIN
BOXES, WITH OWN TAGS in best
manner by**Young & Nugent**

42 W. 28th St., New York

In writing to Advertisers kindly mention Horticulture



Fancy Ferns

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

J. B. Murdoch & Co.

Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance Phone 1435 Court.

Bonnot Bros.

Wholesale Florists
55 and 57 W. 26th St., NEW YORK
Cut Flower Exchange Tel. 891 Madison Square.
OPEN 6.00 A.M.
AN UNEQUALLED OUTLET FOR ASSIGNED FLOWERS

JULIUS LANG Wholesale Florist

Consignments received, sold well
and returns made promptly.
53 WEST 30th ST., NEW YORK
Telephone, 280 Madison Sq.

ESTABLISHED 1872
JOHN J. PERKINS
WHOLESALE and COMMISSION FLORIST
115 W. 30th St., New York
Tel. No. 956 Madison Square

Wanted—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

JAMES A. HAMMOND,

Wholesale Commission Florist
113 W. 30th St., NEW YORK CITY
Tel. 554 Madison Sq.
Consignments receive conscientious and prompt
attention. Highest market price guaranteed.
The finest stock in the market always on hand

Chrysanthemums, Carnations

AND ROSES

Pittsburg Cut Flower Co., Ltd.

504 Liberty Ave., Pittsburg, Pa.
In writing advertisements, mention Horticulture

Established 1891 BUY FROM ME
SHIP TO TRY

All Choice Cut Flowers in Season

ALFRED H. LANGJAHR

55 West 28th St., New York
Telephone 3324 Madison Square.

IN WRITING TO ADVERTISERS
KINDLY MENTION HORTICULTURE

Cut Flowers

BOSTON'S BEST
ALL VARIETIES
SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

N. F. McCarthy & Co.

84 HAWLEY ST.
Tel. Main 5973 BOSTON

Headquarters in Western New York for

Roses Carnations

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist
Also Dealer in Florists' Supplies and
Wire Designs
383-87 Ellicott St., Buffalo, N. Y.
Give us a Trial We can please you

DACER AND FANCY FERNS

\$1.00 per 1000 Discount on large orders
NEW CROP SOUTHERN WILD SMILAX
\$3.50 and 7.00 per Case

GALAX, New crop. (Green \$1.00; bronze \$1.50 per 1000
Headquarters for all FLORISTS' SUPPLIES. Wire
Designs Cut Wire, Letters, Immortelles, Cypres Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c and 6c per yard.
HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 2618.

PHIL. F. KESSLER FLOWERS

Wholesale—Commission
Correspondence Solicited
57 West 26th Street, NEW YORK
Tel. 8921 Madison Square

Want Violets?
I HAVE THE BEST IN NEW YORK.
Regular shipments a specialty
Write for quotations
GEORGE SALTFOORD
40 W. 29th Street, New York
Tel. 3393 Madison Sq.

WHOLESALE FLOWER MARKETS. TRADE PRICES—Per 100—TO DEALERS ONLY

	CINCINNATI Oct. 31	BALTIMORE Oct. 31	BUFFALO Oct. 31	PITTSBURG Oct. 31
ROSES				
Am. Beauty, fan, and sp.	20.00	21.00	20.00	20.00
" extra	15.00	18.00	12.50	15.00
" No. 1	10.00	12.50	8.00	10.00
" Lower grades	5.00	5.00	5.00	5.00
Bride and Maid, fan, and sp.	10.00	10.00	10.00	10.00
" extra	3.00	4.00	3.00	3.00
" No. 1 and Lower grade	4.50	5.00	4.50	4.50
Liberty, fan, and sp.	10.00	10.00	10.00	10.00
" Ordinary	10.00	10.00	10.00	10.00
Carnot and Karsen, fan, and sp.	10.00	10.00	10.00	10.00
" Ordinary	10.00	10.00	10.00	10.00
Golden Gate, Chateaux, fan, y.	2.00	3.00	2.00	2.00
" Ordinary	10.00	10.00	10.00	10.00

CARNATIONS				
Fan y Cl.	10.00	10.00	10.00	10.00
General Class.	10.00	10.00	10.00	10.00

MISCELLANEOUS				
Orchids	10.00	10.00	10.00	10.00
Lily of the Valley	10.00	10.00	10.00	10.00
Violets	10.00	10.00	10.00	10.00
Lilies	10.00	10.00	10.00	10.00
Chrysanthemums	10.00	10.00	10.00	10.00
Aspidistra	10.00	10.00	10.00	10.00
Smilax	10.00	10.00	10.00	10.00
Asparagus Plumosus, strings	10.00	10.00	10.00	10.00
Springer, bunches	10.00	10.00	10.00	10.00

Geo. A. Sutherland Co.

CUT FLOWERS
Florists' Supplies and Letters
34 HAWLEY STREET - BOSTON

List of Advertisers

Page	Page
Ammann Chas. ....478	McCarthy N. F. & Co. ....483
Anderson Wm. H. ....478	McConnell Alex. ....479
Aschmann Godfrey. ....479	McGurum, R. T. ....459
Baker Wm. J. ....480	McKellar Charles W. ....480
Barack, Thos. H. ....480	McKellar, W. E. ....480
Barrows H. H. & Son, 460	McManus Jas. ....482
Barrowsdorfer H. & Co. ....479	Mechan, Thos. ....482
Beaven, E. A. ....481	Metropolitan Material Co. ....459
Berkman, F. J. Co. ....479	Michell H. F. ....462
Black, Chas. ....478	Michigan Cut Flower Exchange ....487
Boas W. J. & Co. ....479	Miller, O. A. ....477
Boodington A. F. ....462	Milling Charles. ....483
Bonnor Bros. ....483	Milang Frank. ....480
Boston Florist Letter Co. ....479	Moninger J. C. ....487
Breck Joseph & Sons. ....462	Morse H. ....480
Brettmeyer's J. Sons. ....479	Murdoch J. B. ....483
Budding J. A. ....480	Niesen Leo. ....480
Burnham, Persen Co. ....488	Peacock L. K. ....478
Burpee W. A. & Co. ....466	Pennock Samuel S. ....480
Butler, E. A. & Son. ....473	Perkins John J. ....483
California Rose Co. ....459	Phlox, C. H. ....480
Chicago House Wrecking Co. ....487	Pierce F. O. Co. ....489
Chicago Carnation Co. ....458	Pierman F. R. Co. ....478
Chivran Macdonald & Spawen Co. ....478	Pittsburg Cut Flower Co. ....487
Cole, W. W. ....479	Pye R. C. ....458
Cord G. H. ....479	Rawson W. W. & Co. ....462
Cottage Gardens. ....458	Raynor John L. ....482
Crowl Fern Co. ....481	Reed & Keller. ....479
Dalger Wm. ....483	Reid Edw. ....481
Donohoe W. H. ....477	Reinberg Peter. ....480
Dorrance, Beau. ....459	Robinson H. M. & Co. ....483
Dryden H. A. ....458-460-487	Robins John. ....477
Dysart R. J. ....487	Rolker August & Son. ....459
Elizabeth Nursery Co. ....478	Saltford, Geo. ....483
Elvins Wm. & Son. ....480	Sander & Son. ....480
Ester J. C. ....480	Schillo Lumber Co. ....488
Ernest W. H. ....487	Schmidt J. C. Co. ....458
Farquhar R. & J. Co. ....462	Se. Hay John A. ....458
Fletcher F. W. ....459	Scott John. ....460
Ford Bros. ....480	Sharp, Partridge & Co. ....488
Forest Nursery & Seed Co. ....478	Shenard W. ....458
Fromow W. & Sons. ....459	Sievers J. H. & Co. ....458
Ghorrmey Wm. ....482	Siggers E. G. ....487
Greer J. J. & Co. ....460	Stutts & Wanta. ....480
Gude A. & Bro. ....479	Skidelsky S. S. ....460
Gurney Heater Mfg. Co. ....487	Stern J. ....478
Gutman Alex. J. ....482	Stevens A. T. Lum. ....482
Hall Asso. ....486	Stevens H. A. ....458
Hammond J. A. ....483	Sutherland Geo. A. ....483
"Slug Sh" Wm. ....462	Suzuki & Iida. ....459
Hewes A. & Bro. ....482	Thompson J. D. Co. ....458
Hibbard, E. ....487	Thompson Walter. ....487
Holly Castle Co. ....479	Thornburn J. M. & Co. ....480
Horan E. C. ....482	Thornburn Bros. ....458-462
Hunt E. H. ....480	Thornburn Bros. ....488
Igoe Bros. ....458	Trenardy & Schenck. ....482
Jones Hiram T. ....478	Troy, J. H. ....478
Kastner W. F. ....483	Vaughan's Seed Store. ....458
Kervan Co., The. ....481	Vaughan and Sperry. ....450
Kessler, P. F. ....481	Walsh M. H. ....459
King Cons. Co. ....487	Ward R. M. Co. ....462
Kloeker A. ....487	Watson G. Co. ....460-478
Koral Mfg. Co. ....479	Weber F. C. ....479
Kronm. & E. N. ....458	Weber H. & Sons. ....458
Lager & Hurrell. ....460	Weldon & Risch. ....480
Lang James. ....481	Wietor Bros. ....480
Langst, Alfred H. ....483	Wild Gilbert H. ....458
Leuthy A. & Co.460	Winterer C.480
	Winterer E. F.480
	Young John.482
	Young & Nugent.482
	Young Thos. Jr.479

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Best Flowers, Bulbs, Seeds and
Supplies in the Country.

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Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

ARACARIAS.

H. A. Dreer, Philadelphia.
For page see List of Advertisers.

AUCTION SALES.

W. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
Bermuda, Harrisli Bulbs.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Bermuda Grown Harrisli and Freesias.

R. & J. Farquhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

J. M. Thornburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

Schlegel & Fottler Co., Boston.
For page see List of Advertisers.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CALLAS.

H. F. Michell & Co.,
Philadelphia, Pa.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St.,
San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pre, Nyack, N. Y.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings Variegated Lawson.
For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thornburn & Co., 56 Cortlandt St.,
New York.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowlii.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St.,
Philadelphia.
For page see List of Advertisers.

W. W. Coles, Kokomo, Ind.
Boston Ferns.
For page see List of Advertisers.

G. C. Watson, Philadelphia.
For page see List of Advertisers.

R. G. Hanford, Norwalk, Conn.
Aspidium Tusssemense.
For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Sterilized Sheep Manure.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.

For page see List of Advertisers.

J. Stern & Co., 1928 Germantown Ave.,
Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St.,
Boston.
For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St.,
Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4226-28 Olive St.,
St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Brettmeier's Sons, Miami & Gratiot
Aves., Detroit, Mich.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

(Continued.)

Thos. Young, Jr., 41 W. 25th St., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

H. F. Michell & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hinchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulting Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

Heating Apparatus.
Burnham Hinchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.

Importing Houses.
August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

Plants tender or hardy.
R. M. Ward & Co., New York.
For page see List of Advertisers.

Plants and Bulbs.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

Japanese Plants.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MANETTI STOCKS.

Thos. Meacham & Sons, Inc.,
Dorchertown, Pa.
For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., New York, N. Y.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

NICO-FUME.

Kentucky Tobacco Product Co.,
Louisville, Ky.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Geo. & M. J. Hochdörfer, Flagstaff, Ariz.

ORCHID PLANTS (Continued)

Julius Reohr Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schodeolarium.
For page see List of Advertisers.

PAEONIES.

Gilbert H. Wild, Sarcozie, Mo.
For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not, Geraniums.
For page see List of Advertisers.

Coltage Floral Co., Cleveland, O.
Rooted Cuttings Ageratum, Coleus, Heliotrope, Geranium.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.

POINSETTIAS.

G. C. Watson, Philadelphia, Pa.
For page see List of Advertisers.

PUBLICATIONS.

G. C. Watson, Philadelphia.
Mushroom Culture.
For page see List of Advertisers.

LEADING RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

RETAIL FLORISTS.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeier's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woodbury, Conn.
Hardy Roses, H. T. Roses and Ramblers.
August Kolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

English-Grown Roses.
Benj. Dorrance, Dorrance, Pa.
Kilmarney and Richmond.
For page see List of Advertisers.

California Rose Co., Los Angeles, Calif.
Field-Grown Roses.
For page see List of Advertisers.

R. T. McGorum, Natick, Mass.
Grafted Roses.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Fanell
Hall Sq., Boston.
Cyclamen Seed.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortland St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Ex-
hib. 1789. 34 Garden Grass, Clover, and Tree Seeds.

SOUTHERN WILD MILAX.
H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.

STEAM TRAP.

E. Hppard, Youngstown, O.
For page see List of Advertisers.

TEXAS MISTLETOE.

Wm. H. Anderson, Brownwood, Texas.
For page see List of Advertisers.

VENTILATING APPARATUS.
Burnham Hinchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter,
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.
Boston.
For page see List of Advertisers.

N. F. McCarthy & Co., 34 Hawley St.,
Boston.
George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.
For page see List of Advertisers.

Wm. F. Kastling, 383-87 Ellicott St., Buf-
falo, N. Y.

Chicago.
For page see List of Advertisers.

J. A. Budioff, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Washburn Ave., Chicago.
Chas. W. McKellar, 51 Washburn Ave., Chicago.
Peter Reinberg, 61 Washburn Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Hise, 59 Washburn Ave., Chicago.
Victor Bros., 51 Washburn Ave., Chicago.
Vaughan & Sperry, 60 Washburn Ave., Chicago.
E. F. Winterson Co., 43, 47, 49 Washburn
Ave., Chicago.

Cincinnati.
Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.
For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
Miami Ave.

WHOLESALE FLORISTS.

(Continued.)

New York.

For page see List of Advertisers.
Bennet Bros., 55-57 West 26th St., New York.

Ford Bros., 48 West 28th St., New York.
Wm. Gormley, 37 W. 28th St., New York.
Alex. J. Guttman, 45 West 28th St.
Jos. A. Hammond, 113 West 30th St., New York.

E. C. Horan, 55 West 28th St., New York.
Julius Lang, 53 West 30th St., New York.
James McManus, 50 W. 30th St., New York.

Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
W. P. Sheridan, 39 W. 28th St., New York.

Tracudy & Schenck, 44 W. 25th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.

Dunmire & Co., Philadelphia.
W. E. McKissick, 1614 Filbert St., Philadelphia, Pa.

Leo Nielsen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

BEGONIA GLOIRE DE LORRAINE.

E. A. Butler & Son, Niagara Falls, N. Y.
For page see List of Advertisers.

CARNATIONS.

E. N. Kroninger, Allentown, Pa.
For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.

For page see List of Advertisers.

EVERGREENS, CRIMSON RAMBLER.

Hiram T. Jones, Elizabeth, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Corbett Mushroom & Spawn Co., 311 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICOTIANA SANDERAE.

Sander & Sons, St. Albans, Eng.
For page see List of Advertisers.

ORCHIDS.

O. A. Miller, 48 Watson Ave., E. Orange, N. J.
For page see List of Advertisers.

PALMS AND OTHER DECORATIVE PLANTS.

P. J. Berkmans Co., Fruitland Nurseries, Augusta, Ga.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

E. A. Beaven, Georgetown, Ala.
For page see List of Advertisers.

TREES.

Elizabeth Nursery Co., Elizabeth, N. J.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Philip P. Kessler, 55 W. 29th St., New York.
For page see List of Advertisers.

George Saltford, 16 W. 29th St., New York.
For page see List of Advertisers.

A. H. Langhage, 55 W. 28th St., New York.
For page see List of Advertisers.

NEWS NOTES.

J. R. Freeman is opening a branch store at 1307 F street, Washington, D. C.

I. A. Kepner, New Cumberland, Pa., has opened a branch store at 159 So. Front St.

A. B. Kleinhaus has started in the wholesale and retail florist business at Easton, Pa.

A new flower store has been opened in the Bay State building, Lawrence, Mass., by G. B. Halley.

Samuel Parsons, Jr., has been appointed to fill temporarily the position of Park Commissioner of Manhattan.

Frank Baldwin will remove his stock from Foxboro, Mass., to Brooklyn as soon as the greenhouses that he is now building there are completed.

John Gavett, who is an extensive grower of celery for the Portland market, is to take charge of the greenhouses of Niles Nelson of South Portland, Me.

William E. Chappell of Providence, was the delegate from the Florists' and Gardeners' Club of Rhode Island to the meeting of the Agricultural Federation of Rhode Island at Kingston.

August Swanson of the Merriam Park greenhouses, St. Paul, Minn., has just completed a large house to be used as cold storage for bulbs and roots during the winter, and probably as an "over-sized" ice-box in summer.

The Bay State Nurseries, N. Abington, Mass., has been awarded a \$50,000 contract for shrubbery and trees for the grounds of H. J. Park, the millionaire grocer at Port Chester, N. Y. The contract covers a term of five years, and \$10,000 will be expended each year. Mr. Park's estate contains 600 acres.

After a career for two years as an "inn," beautiful "Shadowbrook" at Lenox, Mass., again becomes a private estate, having been purchased by Spencer P. Shutter, who will spend a large sum of money in improving the estate. G. T. Philcox, late of Elm Court Farm, has been appointed superintendent. The greenhouses are to be remodelled and enlarged.

GREENHOUSES BUILDING AND PROJECTED.

Easton, Mass.—George Geddes, one house.

Pimlico, Md.—George Cook, range of houses.

Brooklyn, Mass.—Frank Baldwin, range of houses.

Dighton, Mass.—George H. Walker, one house 13x60.

Flatbush, Brooklyn, N. Y.—John Scott, three 20x100.

Onarga, Ill.—Ludvig Mosbaek, three houses, 27x100 each.

PUBLIC DOCUMENTS RECEIVED.

Bulletin 108 of Rhode Island Agricultural Experiment Station, on Analyses of Commercial Fertilizers.

Bulletin No. 165, Hatch Experiment Station of Massachusetts Agricultural College, on tomatoes under glass and methods of preserving tomatoes.

New Jersey Agricultural Experiment Station reports, 183 to 187, comprising analyses of lime, fertilizers, feeding stuffs, etc., and effect of late fall spraying for San Jose or pernicious scale.

WANTS.

GOOD MEN

When you need good men, skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for Florists, Nurserymen, Seedsmen and the Horticultural trade generally.

FOR SALE.

Five cases second-hand seed drawers—244 in all—have been used for Flower seeds. Schlegel & Fetter Co., 26 and 27 South Market St., Boston.

Cabbage plants, Jersey Wakefield; all season succession, \$1 per thousand. Address Edward Woodfull, Glen Burnie, Md.

SITUATION WANTED—In a first-class Floral Store, where there would be a good chance to learn to make up and decorate, by young man who has had a number of years of greenhouse experience with cut-flowers, decorative and general stock. Address Eastern, care HORTICULTURE, 11 Hamilton Place, Boston.

MR. WALTER KENNEDY, Floral Expert, wide experience of Australia and Southern Hemisphere generally, will shortly arrive, and will be glad to receive offers of engagement in first-class Floral Store. Address Expert, care Horticulture, 11 Hamilton Place, Boston, Mass.

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BUSINESS CHANGES.

Miss Ella Newman has purchased the business of the Kansas City Floral Company, Kan.

The business of L. A. Rouston & Co., West Detroit, Mich., has been disposed of to Philip Hildebrand.

Boody & Welch of Northwood, N. H., horticulturists and florists, are making preparations to remove to York, Me., in April and engage in business there.

LIST OF PATENTS.

Issued October 24, 1905.

802,358. Machine for Quartering Fruit. John Goossen, Jr., Newark, N. J.

802,360. Flower Pot. Alexander Marshall, Los Angeles, Cal.

802,912. Hose Carriage. Henry B. Cary, Los Angeles, Cal.

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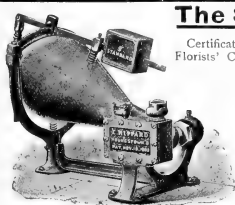
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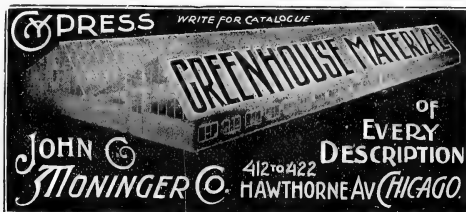
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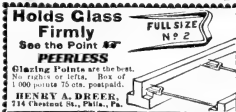
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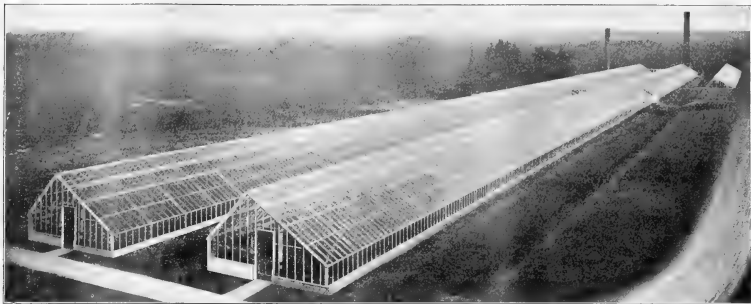
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No. 20



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HORTICULTURE

VOL II

NOVEMBER 11, 1905

NO. 20

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CONTENTS OF THIS ISSUE

	Page.		Page.
FRONTISPIECE—Group at Bruges Exhibition		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
A NEW WINTER CHERRY—Harry H. Thomas— Illustrated	495	Society of American Florists	506
ROSE HYBRIDIZATION—John Cook	495	Pittsburg and Allegheny Florists' and Gardeners' Club	506
HINTS ON BOILERS AND HEATING	496	Minneapolis Florists' Club	506
BRITISH HORTICULTURE—W. H. Adsett	496	Gardeners' and Florists' Club of Boston	506
EXPERIENCE WITH HYDRANGEA PANICULATA GRANDIFLORA—Antoine Wintzer	498	Hingham Agricultural and Horticultural Society	506
MORE ABOUT A GROWER'S DUTY—R. T. McGorum	498	Shows in Prospect	506
HORTICULTURAL EXHIBITION AT BRUGES—A. Dimmock—Illustrated	499	Scales for Judging	506
EDITORIAL	500	Club and Society Notes	507
OBITUARY		Washington Makes Trouble for Philadelphia	508
Wm. Ghormley, R. Haas, C. R. Morgan, James Currie, Sr., Wm. Varney, Rev. H. H. D'Ombrain, David Laird	501	A RUSTIC FLOWER STORE—Illustrated	507
NEWS OF THE CLUBS AND SOCIETIES		CUT FLOWER MARKET REPORTS	
The Philadelphia Show—Illustrated	502	Boston, Buffalo, Chicago, Cleveland, Louisville, Twin Cities, New York, Philadelphia, Washing- ton	513
American Rose Society	502	SEED TRADE	
Tarrytown Flower Show—Illustrated	503	Adulterated Seed Farce	518
Nassau County Horticultural Society	503	Free Seeds	518
Newport Horticultural Society	504	Notes	518
New York Exhibition—Illustrated	504	MISCELLANEOUS	
Duchess County Horticultural Society	505	Personal	501
Washington Florists' Club	505	Our Contemporaries, Wise and Otherwise	501
Chrysanthemum Society of America	505	Adiantum Croweanum—W. F. Kasting	501
Lenox Horticultural Society	505	The Coal Situation	508
Cleveland Florist Club	505	Catalogues Received	508
Massachusetts Horticultural Society	505	San Francisco Notes	508
		Greenhouses Building or Projected	508
		American Carnations in London	508
		Business Changes	510

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Rawson's Royal Strain Cyclamen

Ready for delivery.

This strain has no equal or better. Perfect flowers of giant type are borne on long, erect stems in such profusion that they almost hide the foliage and pot. We can offer the following colors: Pure White, Deep Red, Delicate Pink, Christmas Red, White with Claret Base, Mauve, Salmon Pink and a mixture of unsurpassable variety.

\$1.00 per 100 seeds. \$9.00 per 1,000 seeds.



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**HELLER'S
MICE
PROOF
SEED
CASES.**

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A New Winter Cherry



PHYSALIS BUNYARDI

That splendid winter-cherry (*Physalis Franchetti*) with its large, rich, orange-red calyces ("lanterns") is most valuable for winter decoration. In the market and in the florists' shops in this country (England) bunches of the cut stems of this plant are quite a feature and large numbers of them are sold. They make a most handsome display in large vases, if arranged with grasses, etc., and will last for many weeks in beauty. *Physalis Franchetti* is a great improvement upon the older *Physalis Alkekengi*: its calyces are much finer, altogether more richly colored.

On October 24 Mr. George Bunyard, Maidstone, exhibited a new winter-cherry before the Royal Horticultural Society, called *Physalis Bunyardi*, the result of a cross between *P. Franchetti* and *P. Alkekengi*. It is early to form an opinion as to the merits of this new plant, but it seems to possess at least one advantage over *P. Franchetti* in having longer stems, which are slightly arching and so lend themselves better to decoration than the stiffer and shorter stems of the latter. The inflated calyces are on the whole not so large as those of *Physalis Franchetti*, although some of them are: they are the same color as those of the older sort. The accompanying illustration shows well the habit of growth of this new hybrid winter-cherry, although the "fruits" are shown considerably reduced.

Harry H. Thomas

London, England.

Rose Hybridization

In my researches in plant physiology I find the credit of discovering the sexes of flowers belongs to a Frenchman. The botanist who wrote after the Renaissance hazarded some vague conjectures on this subject, and it was only towards the end of the 17th century that the true functions were assigned with precision, to the pistil and the stamen. Tournefort rejected the fact of fertilization, and persisted in considering the stamens as organs of excretion. After his death, the most devoted of his disciples, Sebastian Vaillant, in a discourse, delivered in 1716 at the King's garden, explained the functions of the stamen, and demonstrated, incontrovertibly, the phenomena of fertilization of plants. Eight years later Linnaeus (Linne) popularized the doctrine of fertilization by his writings, which were no less remarkable for their logical accuracy and poetic charm.

As to the rose, I will only write about the visible organs, namely: the stamen and the pistil. What we, as florists, consider a perfect rose, is in a botanical sense an imperfect one, as the stamens have mostly grown out into petals. The pistils which arise from the center are the organs through which the pollen is carried to the ovule; the stamens surround the pistils, and produce the pollen in little sacks at the extreme end.

Having selected the flower you wish to work upon remove all the stamens before they show any pollen. Then select the flower you wish to be the pollen bearer; if the pollen has not already appeared on it, cut the flower, remove the petals and put the stem in a cup of water until the pollen appears. When the nectar or watery substance appears on top of the pistil is the time to shake the pollen on a white saucer, pick the same up with a camel-hair brush, and carry it to the top of the pistil. As the pollen sometimes is very scarce, it is better to put it only on two, or three pistils, repeating the operation the following day.

It takes a great deal of pollen to make one seed. The pollen grains are living cells, and with these cells, life begins. Why does the seed fail to come up sometimes? Because the flower has been insufficiently pollenized or the pistils were imperfect. A great many of them I have found twisted and crooked, which prevents the pollen from being carried down through the pistil. This I've found the case in the most of our florist roses, such as the *Bride*, *Bridesmaid*, and *American Beauty*. The shell, or the covering of the seed which adheres to the side of the hilum, is fed from the stem below, and is not dependent on the pollen. We find plenty of what the florists call blind seed, namely, the covering without a germ, which proves that no pollen has ever entered it. It takes from four to six months to ripen the seed. When the stem of the hip begins to get yellow then the seed is ripe, take it off, wash the bulb and put it in a pot in sand, which is to be kept wet, and in a short time it will be rotten, when the seed can be washed out, and sown at once, before it gets dry. If the

shell gets dry, it gets harder and consequently it takes longer for the seed to germinate, which takes usually from three to ten months. The enemies of the seedlings are snails and other insects and mildew.

There are over five thousand varieties of roses in cultivation. Like many other plants, the rose has a tendency to revert to the original single form, which prevents us to get quickly the desired results from our hybridizing. I started with Bon Silene and Caserta, as seed bearer, and hybrids as pollen bearers. I soon found that the pollen bearer had too much influence, as the most of the seedlings went back to the habit of hybrids. One of the best as a seed bearer to reproduce its own habit in growth and production of flowers is Maria Van Houtte. It partakes freely of the color of the pollen bearer, but the flowers of the progeny are mostly only semi-double. If I were to give all my experience with the great number of varieties I worked on it would occupy too much space in your valuable paper. The best results have come from recrossing my own seedling. My work has been mostly under glass. There will be plenty to do for centuries to come in the field of hybridizing.

John Cook

Hints on Boilers and Heating

It is not my purpose to pose as a practical boiler constructor or heating expert, but to simply furnish information gained by long experience in handling boilers and heating apparatus, and close observation of their use.

There are four essential features to be considered in selecting a boiler, after the capacity required is determined upon: Economy of fuel consumption, simplicity of construction (so as to be readily repaired—and parts interchangeable), easily cleaned, and durable. We will refer especially to cast-iron sectional boilers which are used for large heating areas. There are few makes of boilers on the market today possessing all of the virtues named. You will find boilers economical in fuel consumption at the start compared with others, but difficult and expensive to repair and if improperly constructed to clean. This type is the most expensive in the long run, for if you have to employ skilled mechanics to replace a part, and the part does not fit when it arrives, the cost of labor and the delay will in many cases amount to the price you paid for the boiler, and if the heating surfaces can not be conveniently cleaned the boiler will lose its efficiency in two or three years, when you will need a new one. There are boilers which apparently are durable and easily cleaned but require the capacity of a coal yard to operate properly. This type you will find are either a direct draft-boiler where the heat travels almost direct from the fire to the smoke outlet, or where the flues or air chambers are improperly arranged. The heat should travel at least a distance equal to twice the length of the boiler before entering the smoke flue, and the heating surfaces should be proportioned in the correct ratio to the grate surface and so placed as to receive the best benefits from the fire.

X.

British Horticulture

A NOTED ROSARIAN

Mr. Cooling, of the firm of Messrs. Geo. Cooling and Sons, of Bath, who was selected to read a paper on autumn roses at a meeting of the Royal Horticultural Society, has devoted considerable attention to the culture of the "Queen of Flowers." The firm has been in existence at Bath for half a century at the nursery business and there are now more than 50 acres in cultivation. Their white rose, Purity, was the first English-raised garden variety to receive the award of the gold medal of the National Rose Society, and it also received an award of merit from the Royal Horticultural Society. Messrs. Cooling have always made a specialty of the growth of garden and old-fashioned roses, which have come into favor in recent years. In spite of the many new comers aspiring for fame each season some of the old varieties still hold their own. In 1853 when Mr. Geo. Cooling, the founder of the firm, started business there were two roses introduced, namely, Gloire de Dijon and General Jacqueminot, and these are still universally grown, the "General" being particularly popular for market work.

The firm have not confined their attention solely to roses, for they are far-famed for their fruit trees. Their noted apple, Beauty of Bath, is to be seen at most fruit shows. This variety is largely distributed. The fruit is of medium size, with an attractive color, marked with distinct green spots over the surface. The firm flesh has a pleasant acidity, and the variety comes quickly into bearing on the Paradise stock. It comes on the market at the end of July, and owing to its excellent keeping qualities it is greatly in demand for commercial purposes. This variety received a first-class certificate from the Royal Horticultural Society as far back as 1887, and the lapse of time has not lessened its perennial popularity.

AN ENGLISH SEED TESTING ESTABLISHMENT

At one time most of the seed testing for the trade in this country was done at Zurich and other continental stations, owing to the lack of proper provision in Britain. There is now in full working order a seed-testing laboratory at Aynsme in Lancashire. Mr. John Stewart Remington, the director, has just issued his third annual report in which he states that the past year has been on the whole an encouraging one, considering the excellent condition of the seed market, and the quality of the seeds offered by merchants. The number of samples tested at Aynsme during the past season has been 1,296, showing an increase over last year of 219 samples. Mr. Remington regrets that the principals of some of the large firms who subscribe to the Continental station are the slowest to appreciate the value of a home seed-testing station. In the southern counties of Scotland and the northern counties of England merchants appear to take more interest in the question of seed-testing than in other parts of the country, except per-

haps in eastern England. Mr. Remington thinks that this may be due to two causes. The merchants in the north of England as a whole are a class keenly interested in their business, and are ever ready to take advantage of any new idea if they see that it can effect an improvement. The growers in the northern districts take a greater interest in the preparation and cultivation of the land than in other parts of England, and this necessarily causes both the wholesale and retail seed-merchants to supply genuine seed, and also to use scientific knowledge as an aid to accomplish this end. Sometime ago I found that a leading London seed house was about to have a new seed-testing apparatus installed, and there are other firms who have now their testing stations. This in a great measure may account for the fact that many of the British firms have not availed themselves of the excellent facilities offered at the Aynsme station, which from personal experience I know to be conducted on the most up-to-date lines.

SOME NEW GLADIOLI.

Messrs. Kelway and Son, of Langpont, Somerset, have made a name from the excellence of their gladioli, of which they cultivate about 25 acres in their noted West of England Nursery. The firm has made a specialty in the hybridizing and cultivation of this variety for the last half century. They have secured a large number of awards, including a gold medal at the St. Louis exhibition. Their blooms are particularly in demand at this season for the harvest festival decorations at the churches. The latest varieties now being offered include Valdora, flesh-tinted pink, yellow centre, which received a first-class certificate from the Royal Horticultural Society; Princess Mary of Wales, flesh tinted, flaked with yellow spot; Abercoon, lilac, flaked with violet spot; Agalla scarlet, white speckled centre; His Grace, crimson, white speckled centre; Leslie Carter, mauve, yellow spot, orange blotch on lower petals; Libanius, crimson, yellow-speckled centre; Mafra, scarlet crimson, dark spot, yellow tips. A standard work on the culture of this variety is "Gladiolus Gandavensis," from the pen of the late Mr. James Kelway, a former member of the firm. The fields of gladioli at Langpont are a picture when in full bloom. This usually lasts from late in July to the middle of October and in favorable seasons even later than this, and is the admiration of everyone journeying to this delightful spot.

A WOMAN'S VIOLET NURSERY

Women have demonstrated that they are able in Britain to successfully engage in various branches of nursery work. In the south the Misses Allen-Brown are conducting a violet nursery. They have transferred to English soil, in their picturesque Sussex gardens, the French method of violet culture. The number of plants is about seven thousand, and the chief varieties in cultivation are Parme de Toulouse, Marie Louise, Neapolitan, Princess of Wales, Mr. D'arcy, and Mrs. Arthur,

the last two being new sorts. Amongst whites Comte de Brazza is found the most useful. From early in October an extensive business is done in sending away boxes of violets by post, and quantities of the roots are also disposed of. The Misses Brown, with the aid of a lad of 15, do the whole of the nursery work, and the watering of the plants alone, in the summer months is by no means an easy task. The land is kept perfectly clean by perpetual hoeing, and as it is essential to prevent the plants from making runners, in order to secure big flowers with long stalks, constant vigilance has to be shown. In severe frosty weather the frames are covered with Archangel mats, and these are removed in the day-time to secure every possible ray of sunshine. Work is usually commenced at 5 A. M. in the summer, so that it is no more ornamental display which is associated with the Misses Brown's work. One of the sisters was in a poor state of health when she started, but she is now able to comfortably perform ten hours of steady toil—a testimony to the value of the "simple life" theory.

ORGANIZING THE FRUIT INDUSTRY

British fruit growers in the past have had little done for them by the Government, although the farmers have had a Board of Agriculture to watch over their interests. This policy of cold indifference is now likely to be changed. A Departmental Committee appointed by the Board of Agriculture recently made a full investigation into the present position of the industry, and their recommendations have been incorporated in a valuable report. These proposals were discussed at a conference held this week under the auspices of the Royal Horticultural Society, and the National Fruit Growers' Federation. It was recognized by several of the speakers that this country is far behind America and Canada in the efforts made to give instruction in the best methods of growing and distributing, in the investigation of insect pests and diseases, and in the furtherance of the fruit growing industry of Government aid. Various proposals were adopted for securing needed reforms in the culture and distribution of fruit, and these expressions of opinion from the leading experts will be very valuable in directing the trend of legislation. The fact that the fruit growers in the past have neglected to avail themselves of the advantage of combination, and making their wants known in a united voice, is due, in a great measure, the apathy shown towards their interests by the governing authority.

W. H. Adsett,

London Eng.



Experience with *Hydrangea paniculata grandiflora*

I was greatly interested in Mr. J. R. Freeman's article in regard to the retarding of *Hydrangea paniculata grandiflora* blooms. Perhaps a little account of our experience along the same lines might be of interest to your readers.

It was along in 1869 that the writer first commenced to grow this useful, hardy, ornamental shrub for propagating purposes. The first dozen plants were bought from a Flushing, New York, firm, and since then millions have been propagated in this section. In this locality (southern Pennsylvania) this hydrangea thrives remarkably well; our rich loamy, limestone soil seems to agree with it. In the town and country places, large specimens 9 to 10 ft. high with a proportionate diameter, are not uncommon. Some of these were planted 25 or 30 years ago and are a grand sight when in bloom.

It roots easily from cuttings taken from the plants the first or second week in July, depending somewhat on the season. In looking over the record of propagation since 1870, I find the average time about July 9th. The cuttings are made from wood of the new growth cut into proper lengths; half the foliage is cut off to prevent too rapid evaporation, as well as to save room in propagating house. I prefer to root them in houses in preference to frame as they do not require any bottom heat at this season of the year. They root in from 3 to 4 weeks. After they are rooted, we pot them into 4-inch pots, five and six plants in a pot. We keep them under glass until October, then begin to harden them off, after which they are heeled in outside in beds where they remain until spring.

When they are ready for field planting, generally about the middle of April, sometimes as late as first week in May, according to season, we select a rich, mellow plot of ground and plant them in rows 100 to 125 yards long. When the plants are expected to remain two years we run the rows 3 ft. apart and the plants about 5 or 6 inches apart in row. These are cultivated with horse. Where the plants are intended to remain in same ground only one season, we run rows 20 inches apart and plant about 4 inches apart in the row. These are cultivated with wheel hoe by hand. This stock is generally used for the mailing trade. The plants grow from 15 to 24 inches the first season after planting, with from 1 to 3 shoots, each of which produces a fine head of bloom the second or third week in September. This is about a month later than the blooming season on established plants. The flowers on the late blooming young plants are whiter than the earlier blooms on older plants.

When we have a wet summer like the past, the stock plants in field, from which the cuttings have been taken, make a second growth and produce good blooms in October. We had a batch of 1000 plants in fine bloom as late as October 20th. The soil, however, should be

very rich and the plants should be topdressed with fine manure, also well cultivated after the July cutting. To ensure success in a dry season, watering would have to be resorted to.

There is another method by which the blooms can be retarded, at will. This can be done by digging the plants from field in November, pruning them into desirable shape. If large heads are desired, prune close, if smaller ones are wanted, prune less. Keep the stock plants in a cold cellar and plant them in field in June or early July. This will ensure a late fall bloom. When all the good qualities of this hydrangea are taken into consideration, it is not surprising that its popularity is constantly on the increase. The millions of blooming shrubs in the country are a living advertisement. It has a character of its own, hardy and enduring as a forest tree, giving us its annual wealth of flowers without stint. Its only requirements are ample room, good soil and plenty of manure and water. It can be pruned at any time from November to April, and the writer has never known it to fail even under adverse conditions.

Robert J. Freeman

More About a Grower's Duty

"Pardon this freedom I have ta'en
An', if impertinent I've been,
Impute it not, good sir, in ane
Whose heart ne'er wrang'd ye
But to his utmost would befriend
Ought that belang'd ye."

—Burns.

Volcanoes and earthquakes, we are told, are caused by gases being bottled up in the earth's interior, gradually getting stronger, till the pressure is so great that something must give way. Something of this sort would probably have happened around that eastern city, but I gently lifted the lid, and the pressure seems to have gone down very perceptibly. Judging by the quietness of some of the circle, they must have taken to the tall timber. I hope all of these will be a little more sensible and look around home and not go west to pick a mote out of a brother's eye. Their shafts were not hurled at Mr. Lemon or the C. S. A., but they came pretty close. They were thrown at a gentleman with whom I have had business dealings and who probably has forgotten more than his critics ever knew and who has done more for horticulture than the whole bunch; but let this part of the matter drop, as they are doubtless repentant and wish to be good boys and will try to make amends for all.

Regarding the foreman question, I maintain that any foreman who has charge of a place, the proprietor having a knowledge of the business or being ignorant of his position, should, when a flower show of national importance is almost at his door, see to it that the matter is placed before his employer in a way which would enable him to see his duty.

We all know that Mr. Lemon is a painstaking gentleman, watchful of the interests of the society in which he holds an exalted position, and one who, like our President, wishes to give every member or non-member a "square deal."

Robert J. Freeman

Horticultural Exhibition at Bruges, Belgium.



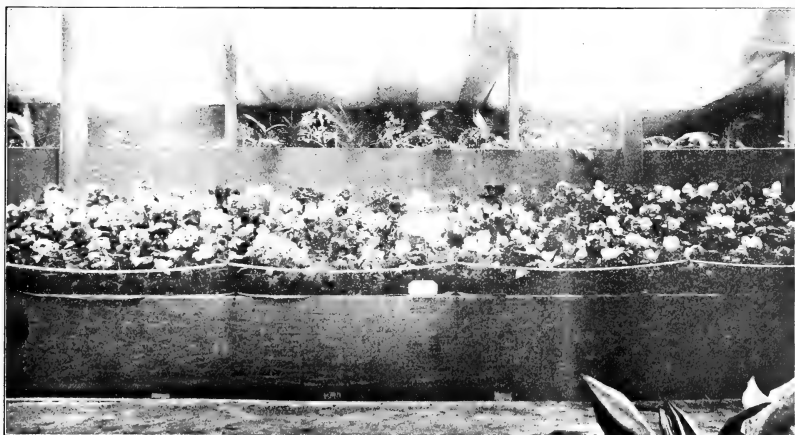
FIRST PRIZE GROUP OF ORCHIDS AT BRUGES EXHIBITION.

One of the most important exhibitions ever held on the continent of Europe occurred this year at Bruges, Belgium. It being the 75th year of independence, the government allotted various amounts to the provincial authorities to celebrate the occasion. Each city had its fetes, and some \$12,000 having been appropriated to Bruges, it was decided to devote the

funds to horticulture (one of the staple industries of the country). During the last few years rapid strides have been made in this direction at Bruges. And the photographs show to some extent the efforts of Sander & Sons, who were the largest exhibitors, carrying off many first prizes. The King of the Belgians, himself a great lover of plants, honored the exhibition by his presence at the opening of the show.

Photograph No. 1 shows the premier orchid group. Never before was such a display seen in Belgium. The arrangement and general contour of the group was charming and some 500 well-grown orchids, consisting chiefly of hybrids, were used, cattleyas and laelias predominating, large specimen cypripediums of the Rothschildianum type, quantities of *Odontoglossum*

(Continued on Page 500.)



FIRST PRIZE EXHIBIT OF TUBEROUS BEGONIAS AT BRUGES.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

Attend the show The height of the exhibition season is now on. Every horticulturist who would be well-informed in his business should visit at least one good exhibition, and more than one if possible. It takes a little time and effort, but it is time well used.

A useful society The Chrysanthemum Society of America is doing a useful work through its excellent system of local committees. Thanks to it the purchaser of new varieties is protected and the community each year escapes an avalanche of worthless material. A certificate of the Chrysanthemum Society of America is well worth striving for.

Modern publicity methods The large number of widely separated exhibitions, all of them noteworthy in a greater or less degree, are certainly a heavy drain at this season upon those commercial growers who, having novelties or other things, wish to make use of this excellent means of publicity, for business advantage. Nothing can demonstrate more convincingly than do these recurring displays the unprecedented push and enterprise of modern business methods. Timorousness and frugality have but little part in the policies that succeed today.

The violet in the exhibition hall Cannot some violet lover introduce a way of exhibiting the violet which will better display the charms of this popular little flower? A row or two of tumblers or small vases each holding the stereotyped "bunch" of closely-packed blooms with a fringe of leaves, in some spare corner of the exhibition table, is the usual disposition of the modest violet. Visitors spend but little time on it, stopping only to try its fragrance and often finding it anything but sweet. The violet is worthy of more con-

sideration as to its arrangement and as soon as its violet fragrance has gone the flower should also be ejected, for it is no longer fit.

The American Rose Society exhibition The preliminary schedule of premiums to be competed for at the exhibition of the American Rose Society in Boston next

March affords a forecast of what promises to be the greatest rose exhibition ever made in this country. Local growers can be depended upon for a comprehensive display of pot-grown roses and the cut-flower contributions from every section of the country should be very extensive. To the rose more than any other flower or race of flowers the florist trade owes its magnitude and prosperity. Here is an opportunity for the growers to do something in return for what the rose has bestowed and it will not be a profitless gift but an investment, rather, which cannot fail to benefit eventually all who participate in this notable event. The special premiums for mantel and table decorations open the way for a feature heretofore absent from the rose shows which cannot fail to interest and attract many visitors.

A gardeners' home We hear some talk of an effort about to be made to raise funds for the establishment of a "Gardeners' Home," where superannuated gardeners who through disability or misfortune may be compelled in old age to rely upon the generosity of their fellow man, may find honorable shelter. Just what are the plans of the promoters of this scheme we do not know but the idea strikes us favorably. In few professions is the reward for honest toil so meagre as in that of the gardener, yet among no class is the element of brotherly sympathy more strongly developed. An appeal made in the right way would undoubtedly elicit a substantial and hearty response from the craft all over the country and the same would undoubtedly be true of that class of our citizens who are employers of gardeners and know their faithfulness and can always be depended upon to take a generous interest in a worthy cause. The proposition is by no means an impracticable one.

Taste in displaying vegetables At some of the exhibitions, notably those where private gardeners rather than truck-growers lead in the vegetable classes, the vegetable display rivals that of the flowers and plants in its attractiveness for visitors. This is because of the excellent taste in arrangement which is possible with the bright colors and varied forms of the different vegetables which the clever exhibitor knows so well how to group to advantage. The greens of parsley, and herbs, the scarlets of peppers and tomatoes, the purples of egg plants, the orange of carrots and Indian corn and pumpkins, the shining yellows and fantastic forms of gourds make effective contrasts with the sober tints of other vegetables and furnish plenty of scope for tasteful arrangement. This is the way to show vegetables but we know one society which disburses large sums of money every year for vegetable exhibits where, for many years, every effort to introduce this class in the schedule has been fought to a finish by the market-garden interests despite the fact that the public practically turns its back on the vegetable department in consequence.

OBITUARY.

WILLIAM GHORMLEY.

We are pained to learn of the death of Wm. Ghormley, which occurred at his home in Mt. Vernon, N. Y., on November 8. Mr. Ghormley has been a great sufferer for the greater part of a year. The cause of his death is given as cancer of the stomach.

He was born at Chillicothe, Ohio, sixty-six years ago, and at that place final interment will take place.

Mr. Ghormley's first acquaintance with the cut flower business was six



years ago, when he formed a partnership with John Perkins and opened a wholesale commission establishment at 57 West 28th street, New York, from which Mr. Perkins retired the following year, since which time Mr. Ghormley has carried on the business individually. He quickly developed a notable business activity and was especially an enterprising factor in the violet market.

In his daily life Mr. Ghormley was rather retiring, but those who had the privilege of meeting him socially found him always the gentleman, kind-hearted, liberal and sympathetic in a high degree.

R. Haas, Omaha, Neb., died on October 26.

Charles R. Morgan of Georgetown, D. C., died on October 26, aged 45 years.

James Currie, Sr., of Milwaukee, Wis., died on October 29 at the age of 78 years.

William Varney, an employee of Franklin & Crosby, Brooklyn, Conn., for several years, died suddenly on October 29.

Rev. H. H. D'Ombain, vicar of Westwell, Kent, England, died on October 23, aged 87 years. He was for many years secretary of the National Rose Society, of which he was one of the founders. As "Wild Rose" Mr. D'Ombain

was a frequent contributor to the columns of 'The Gardeners' Chronicle over a long series of years.

THE LATE DAVID LAIRD.

The news of the death of David Laird, Edinburgh, came as a note of sadness to the writer as it doubtless did to many others on this side of the water to whom Mr. Laird was a friend at a time when the friendship of such men as he meant a great deal to the young journeyman turned loose with oftentimes scanty preparation in the way of knowledge or in the possession of much of this world's goods. In those days the Mecca to which the eyes of all apprentice gardeners were turned was Edinburgh and many found a harbor of refuge in the nurseries at Pink Hill where they could remain until berths were obtained for them through the Bureau in North Frederick street over which Mr. Davidson presided with a solemnity and gravity that caused his advice and admonitions to be long and fearfully remembered by the journeymen receiving final instructions on their departure to their first situations.

The late David Laird was a frequent visitor to this country and this along with his residence in Canada for some years would account for his business methods which were different from those of most other seedmen and nurserymen in Scotland. He was more alert and aggressive, yet one of the most genial and kindest of men, and his taking away in the full vigor and power of manhood is a distinct loss to horticulture, more especially to Scottish horticulture, into which he seemed to instill an invigorating tonic, but news of his loss is still greater felt by those to whom by many acts of kindness and encouragement he long ago endeared himself.

D. McINTOSH.

PERSONAL.

D. W. Field has been elected chairman of the park commission of Brockton, Mass.

Wm. J. Stewart of Boston will serve as a judge at the big Kansas City show which opens on Monday, November 13.

Mrs. Robert Ruttle of Covington, Ky., broke her arm by slipping and falling down a flight of stairs last week.

Denys Zirngiebel is seriously ill at his home in Needham, Mass., he having sustained a paralytic shock last Friday.

Miss Elizabeth Mitchell, daughter of John Mitchell of Beverly, Mass., was married to Charles E. Hurlburt on October 30.

Robert Cameron, superintendent of Harvard Botanic Garden, sailed on October 28 for the West Indies where he expects to do some exploring and collecting.

A special exhibit of American carnations in mid-winter in England is advocated by Mr. Hayward Mathias in the Journal of Horticulture, who undertakes to solicit subscriptions to provide funds for the carrying out of the project.

OUR CONTEMPORARIES. WISE AND OTHERWISE.

Dog Gone.

He took Nikoteen one part and aqua-pur fifty parts and gave the dog a thorough washing with the liquid. Next morning dog and fleas were dead.—Florists' Exchange.

Next.

The boll weevil is doomed. Weed has been discovered, which, when planted with cotton, impregnates the cotton plant with a juice that poisons the bug. Now watch out for a new kind of bug.—Milwaukee Sentinel.

The Passing of Henry.

Henry Niemeyer has bought a saloon on the Manchester road. He says he will keep travelers on the wet side. His greenhouses will be run by his wife and his foreman, Henry Blase.—U. A. G. in Am. Florist.

"What d'ye think of that?"

An illustration of the use in America of Japanese methods in growing is shown in a number of plants imported from the Imperial gardens. The buds when young are thrust through holes in boards and are kept there until they blossom. The result is a bloom with long fringe like petals.—New York Herald.

Keeping Tabs on the Stork.

Many smiling faces have recently been seen in the Park street market. Allan Pierce comes in smiling over the latest boy which arrived at his house a short time since. George Cartwright, the genial treasurer of the Association, smiles because within the past week the boys have learned to reverie him as grandpa; and Joseph F. Fee wears a contented smile over the wee woman which arrived at his house on Tuesday.—J. W. Duncan in Florists' Exchange.

ADIANTUM CROWEANUM.

Editor of HORTICULTURE: Dear Sir—Having advertised Adiantum Croweanum liberally in your paper on various occasions during the past season, I would like the privilege of your columns to counteract the wrong impression conveyed by Mr. Peter Crowe's recent statement published in two of the trade papers. I know that my friend, Mr. Crowe, had no intent to do any harm and simply wanted to warn the buyers of ferns against spurious varieties that might be sold to them as Croweanum.

I want to say to my florist friends and patrons who bought this fern from me or any of my authorized agents, that they got the true Adiantum Croweanum, the same stock that Mr. Crowe is growing today.

I bought 6000 stock plants from Mr. Crowe a little over two years ago, and probably have sent out forty to sixty thousand; I don't know the exact number. And I know there were a few who bought this fern from me in large quantities, and no doubt they are selling cut fronds and are certainly entitled to call it Croweanum.

Undoubtedly Mr. Crowe will send another letter to the papers to verify my statement. In regard to my sending out the true Adiantum Croweanum. Respectfully yours,

WM. F. KASTING.

NEWS OF THE CLUBS AND SOCIETIES

THE PHILADELPHIA SHOW.

Good judges declare that the exhibits put up in this year's Philadelphia show were the best ever seen in America—especially in the cut flower section, where the Chrysanthemum Society followers were out in strong force. Perhaps the most coveted prize in the show in the cut flower section was that for the gold medal offered by W. W. Wells of Earlwood, England, for the best 6 blooms of Mrs. Wm. Duckham. It was won out in keen competition by R. Vince, gardener to R. D. Foote, Morristown, N. J., who also captured the silver cup offered by F. R. Pierson Co. for the best 6 blooms of 6 varieties of 1904 introduction; besides a number of other notable victories. We do not remember having heard of Mr. Vince before, but he is now very firmly impressed on our memories. The silver gilt medal in same class went to Thos. W. Head, gardener to Morton F. Plant, Groton, Conn.; the silver medal to Arthur Herrington, gardener to H. McKay Twombly, Madison, N. J.

Another strongly competed class in the C. S. A. section was the one for 25 blooms, 25 varieties in which Mr. Herrington came out first, and a local grower, Mr. Kleinhanz, second. The latter gentleman, we believe, has the distinction of being the only local man who was able to get in on the C. S. A. section.

In the sections devoted to big specimen plants, Gordon Smirl, gardener to Joseph F. Sinnott, Rosemont, Pa., seemed to have everything pretty much his own way this year. Jos. Hurley, gardener to James W. Paul, got ahead of him in one section, William Kleinhanz and John McCleary in others, but on the whole this old veteran grower can congratulate himself on having shown up in unusually good form this year.

The fern and foliage plant sections were well represented, and the decision between the Drexel and Newbold fern groups was one of the keenest the judges were called upon to pronounce. Thomas Long, gardener for George W. Childs Drexel, finally got the coveted first. Joseph Hurley took first on group of foliage and flowering plants with a fine display, but unfortunately there was little competition in that class this year. Display of 8 plants in 8-inch pots was a keen decision and went to John Thatcher, gardener to H. Le Bontillier, with William Robertson, gardener to John W. Pepper, a close second. John Hobson's crotons were as usual quite a feature of the show and took first honors. Samuel Batchelor, gardener to Clement B. Newbold, captured the silver medal for the best fern in the show with a magnificent Cebotium Schiedei with a fourteen-foot spread. Long's gleichenia was not eligible this year, as it took the medal last year.

A novelty in the rotunda was a pyramid of vegetables put up by a Chestnut Hill gardener, which was a fire piece of work. Michell's Japanese pavilion, nicely illuminated, was another feature of the rotunda, pleasing and attractive. Of course it was the

work of Philip Trend. It's too bad we have to mention him so often. He'll be getting conceited soon! The Weathered company had an amateur's greenhouse on show which attracted a good deal of attention.

E. G. Hill's Adelia was a feature on the stairway, as was also Curwen, Stoddard, Appleton and Brutus, both of the latter taking firsts and reflecting credit on Andrew Morrison, the gardener. Albert Muller, gardener to Dr. Mattison, had a fine display of Nellie Pockett, for which he was deservedly awarded a first. Nathan Smith & Sons' new variety, President Roosevelt, captured the Nathan Smith prize, and was also awarded a silver medal by the Pennsylvania Horticultural Society. It is a magnificent incurved variety, bluish pink with deep glowing center—a most charming col-



THE F. R. PIERSON CO.

For six blooms of six varieties of 1904 introduction won at Philadelphia by R. Vince, gardener to R. D. Foote, Morristown, N. J.

or combination, similar to what we sometimes see in the best of the peonies. E. G. Hill & Co. got a first with a notable unnamed yellow seedling, incurved, very deep, heavy flower, 7x7 in.; besides a number of other awards which seemed to make Mr. Lemon feel that life was worth living after all.

From England came the Wells' exhibit, put up by Mr. Totty of Madison, N. J. Notwithstanding their eleven days out of water on the way, they showed up good and were a feature of the exhibition. E. J. Brooks, a plum color with silvery reverse, Mrs. John E. Dunne, like a nymphaea dahlia, and Mrs. George Houme, a salmon buff, struck us as the most distinctive of the group of twenty-four varieties staged.

Special mention was accorded to Arthur Mallon, gardener to Mrs. Edgar T. Scott, for a window box of 15 blooms of a fine, compact yellow with

fawn center. The William Graham Co. were awarded a special prize for their pavilion in center of main hall. Japanese lanterns, palms, cut chrysanthemums, coleuses, oak leaves and birch-bark pedestals formed the ingredients of this display.

The Henry A. Dreer Co. had a fine group of foliage and flowering plants arranged in front of the stage, as well as bulb and sundries display in the lower hall. Julius Roehrs and Lager and Hurrell had nice groups of orchids. As usual the prize for the best six geraniums in 10-inch pots went to William Robertson. Grand plants.

Meehan's display of over 100 varieties of pompons—grown outdoors—was a feature of the show in the lower hall, as were also Harris's Begonia Lorraine, Schriber's cyclamens, and Batten's Farleyense. Special prize went to Pierson for Begonia Turnehorl Hall.

The vegetable and fruit display was smaller than last year, but first class as to quality. G. C. W.

AMERICAN ROSE SOCIETY.

Preliminary schedule for annual exhibition to be held at Boston, Mass., in connection with spring exhibition of the Massachusetts Horticultural Society, March 22 to 26, 1906.

Division A.—Open to all. Twenty-five blooms of any of the following varieties. First prize, \$10; second, \$7. American Beauty, Queen of Edgely, Bridesmaid, Kaiserin Augusta Victoria, Mrs. Pierpont Morgan, Mme. Cusin, Mme. Hoste, Mme. Caroline Testout, Souv. du Pres't Carnot, Perle des Jardins, Golden Gate, Mme. Abel Chateau, Bonsilene, La France, Mrs. Oliver Ames, Ivory, Safrano, Liberty, Sunrise, Wellesley, Killarney, Richmond, Gen. MacArthur, Uncle John, Marq. de Salisbury, or any other disseminated variety.

Division B.—Twelve blooms of any of the above-named varieties. First prize, \$5; second, \$3. Open to growers having not more than 40,000 feet of glass in rosehouse.

Division C.—Duplicate of Division B. Open to private gardeners and amateurs only.

Division D.—Open to all. Twelve blooms of any of the following hybrid perpetuals. First prize, \$10; second, \$5. Ulrich Brunner, Mrs. John Laing, Gabriel Luizet, Suzanne de Rodocanachi, Paul Neyron, Anne de Diesbach, Baroness Rothschild, Merville de Lyon, Mabel Morrison, Mrs. Sharman Crawford, General Jacqueminot, Captain Hayward, Prince Camille de Rohan, Duke of Edinburgh, Magna Charta, Captain Christy, Clio, General Washington, Mme. Charles Wood, Reynolds Hole, Marie Baumann, Fisher Holmes, John Hopper, Baron de Bonstettin, Gloire de Lyonnaise, Eugene Furst, Friede of Waltham, Francois Levet, Robert Duncan, Frau Karl Druschki, Oakmont, Alfred Colomb, La Rosier, Margaret Dickson, Jeannie Dickson, Lady Helen Stewart, Senateur Vaisse, or any other named disseminated variety.

Division E.—Duplicate of Division D. Open to private gardeners and amateurs only.

Division F.—Special prizes. Executive Committee Prize, fifty blooms of American Beauty Roses, \$50. Alexander Montgomery Prize, for twenty-five blooms of any American Seedling Rose introduced in or since 1901, \$25. Alexander Montgomery Prize, for twenty-five blooms each of Bride and Bridesmaid, grown and exhibited by any grower who has ever been employed at Waban Rose Conservatories under Alexander Montgomery, \$25. Lord & Burnham Trophy, valued at \$250, to be awarded to winner of first cash prize for American Beauty Roses. Must be won twice to become permanent property. E. G. Hill Prizes, for fifty blooms of Richmond, \$25. Twenty-five blooms of Richmond, \$15. W. H. Ellis Prize, \$50 cup for vase of fifty blooms of Liberty. Henry Penn Prize, \$25 cup for twenty-five blooms of Liberty. Ellwanger & Barry Prize, \$25 for best New American H. P. Seedling. Welch Bros.' Cup, \$25 for best vase of roses in exhibition. A. H. Hews & Co. Cup, \$25 for specimen plant. (Not a climber.) M. H. Walsh prize, \$25 for Lady Gay and Wedding Bells in pots. W. W. Edgar Prize, \$25 cup for specimen Crimson Rambler. Thomas F. Galvin Prize, \$50 cup for fifty blooms of Wellesley. Edward MacMulkin Prize, \$50 cup for fifty blooms of American Beauty. J. Newman & Sons (Corporation) Prize, \$50 cup for fifty blooms of Bridesmaid. J. K. M. L. Farquhar Prize, \$25 cup for twelve blooms of Bridesmaid grown and exhibited by a private gardener. W. E. Doyle Prize, silver cup for twenty-five blooms of Killarney. Julius A. Zinn Prize, \$25 cup for twenty-five blooms of Bride. A. F. Estabrook Prize, \$100 cup for mantel and mirror decoration of roses. Houghton & Dutton Prize, \$50 cup for dinner table decoration of roses. Benjamin Dorrance \$250 Challenge Cup, conditions to be announced later. W. F. Kasting, \$25 cash or cups. Benj. Hammond, kgs of slug shot. Classes to be announced later. Other valuable special premiums expected. Complete schedule will be issued shortly, in connection with regular schedule of Massachusetts Horticultural Society for year 1906.

ALEX. MONTGOMERY,

President.

WM. J. STEWART,

Secretary.

TARRYTOWN, N. Y., FLOWER SHOW.

The seventh annual exhibition of the Tarrytown Horticultural Society, held in the Music Hall, on November 1st, 2d and 3d, was quite up to the standard of former years. There was a slight falling off in the number of chrysanthemum blooms shown, especially in the classes calling for six blooms of one variety, but in the classes calling for distinct varieties, the entries were large and the competition keen. The annual introduction of so many new varieties is no doubt responsible for this, as we have few large growers in this section, and most of them being anxious to keep up to date in the matter of variety, must necessarily cut down to a smaller number of the individual kinds. There were five entries in the class calling for 25 distinct varieties, and it may safely be said that there wasn't a poor bloom

in the lot, so that the competition was very close. Girard Foster, Lenox, Mass., Edwin Jenkins, gardener, won first prize, Joseph Eastman, Tarrytown, N. Y., William Scott, gardener, being a close second. In the 12 distinct, four lots were staged, the decision here being reversed, J. Eastman being first and G. Foster second, in a very close race. Among Mr. Foster's best blooms were Mrs. Barkley, W. R. Church, Bessie Godfrey, William Duckham, Emily Mileham, Donald McLeod, and F. S. Vallis. Some of Mr. Eastman's best blooms were Lady Hopeton, Chelton, Ben Wells, F. S. Vallis, Janet, Lady Clark, Mrs. D. West, Guy Hamilton and Lord Salisbury. In the class calling for six varieties, six of each, the tug-of-war was between William Rockefeller, Tarrytown, N. Y., George Middleton, gar-

den, and Samuel Untermeyer, Yonkers, N. Y., John Featherstone, gardener. The prizes were awarded in the order named, the first prize lot being composed of the following varieties: Mrs. Weeks, William Duckham, Merza, T. Carrington, Col. D. Appleton and F. A. Cobbold.



THE T. R. PIERSON CUP.

For twenty-five each of white, pink and variegated Lawson carnations awarded at Tarrytown, N. Y., to Frederick Potter, Ossining, N. Y., Wm. C. Roberts, gardener.

dener, and Samuel Untermeyer, Yonkers, N. Y., John Featherstone, gardener. The prizes were awarded in the order named, the first prize lot being composed of the following varieties: Mrs. Weeks, William Duckham, Merza, T. Carrington, Col. D. Appleton and F. A. Cobbold.

A whole table was filled with the class calling for six blooms distinct, G. W. McCashin, High Bridge, N. Y., James Stevens, gardener, winning first place, with Frederick Potter, Ossining, N. Y., William G. Roberts, gardener, second.

In the pot chrysanthemum classes, Samuel Untermeyer was the principal prize winner, Samuel Goodman, Irvington, N. Y., John Henry, gardener, being second to the above for a group covering 75 square feet.

In carnations, the keenest contest was for the silver cup given by the F. R. Pierson Co. for 75 blooms of carnations, 25 each of white, pink and variegated Lawson. The competition was very close, the judges after considerable deliberation awarding the

cup to William Rockefeller, and the second prize to Frederick Potter. The Cottage Gardens, Queens, N. Y., showed a fine vase of Robert Craig and Alma Ward. Guttman & Weber, Lynbrook, N. Y., showed a fine vase of Victory, and Patten & Co., Tewksbury, Mass., a vase of Pink Patten.

Foliage and flowering plants (other than chrysanthemums) were exceptionally fine, especially the ferns and plants in the groups and tables of decorative foliage plants.

WILLIAM SCOTT.

EXHIBITION OF NASSAU CO., N. Y., HORTICULTURAL SOCIETY.

On November 1st and 2d, the first annual exhibition of this society was held, and proved in all respects a great success. Pembroke Hall, where the flower show was held, looked ablaze with color from the aggregation of flowers and fruits. The stage was artistically decorated by a collection of fine foliage plants from the Elsmore Gardens, T. Harrison, gardener. Groups of foliage plants and chrysanthemums occupied the centre of the hall, while arranged on side tables were all the cut flowers, fruits and vegetables.

In the competition for group of foliage plants, Felix Mense, Glen Cove, won first, and Alexander MacKenzie, gardener to Percy Chubb, second. For a group of chrysanthemums, A. MacKenzie was first, John F. Johnston, gardener to Paul Dana, second. A. MacKenzie also staged some beautiful bush plants of chrysanthemums.

In the classes for cut blooms of chrysanthemums, A. MacKenzie stood pre-eminent, his exhibit in the class for 12 distinct varieties of chrysanthemums being superb. It was, however, closely followed by that of George Ashworth, gardener to Walter Jennings, Cold Spring Harbor. Other chrysanthemum prize winners included Henry Matz, gardener to L. J. Busby; Valentine Cleves, gardener to F. S. Smithers; W. Willesen, gardener to H. F. Noyes; F. Mense and John F. Johnston.

In the carnation classes, the successful competitors were P. Ewen, gardener to R. V. H. Kennedy, Hempstead; W. Eccles, gardener to J. H. Schiff, Oyster Bay; F. Boulon, Seaciff; W. Willesen, A. MacKenzie and James Holloway. In roses, A. MacKenzie was prominent. Both double and single violet classes were well represented, James Holloway, gardener to the Pratt Estate, and F. Boulon being successful exhibitors.

Fruit exhibits were large and especially attractive, James Holloway and F. Boulon securing respectively first and second for collections. Chas. Mills showed also good apples. The section for vegetables also brought out many competitors, each with high-grade goods, prominent prize winners being Henry Matz, James Holloway, F. Petroni, F. Boulon, V. Cleves, A. MacKenzie and John F. Johnston.

W. Anderson, So. Lancaster, Mass., John Scott, Brooklyn, and John McNichol, Lawrence, L. I., were the judges.

A vase of Robert Craig carnations from the Cottage Gardens, Queens, received the society's certificate of merit, highest award.

JOHN F. JOHNSTON.

NEWPORT HORTICULTURAL SOCIETY.

The regular fortnightly meeting of the Newport Horticultural Society was held Wednesday evening, President Sullivan in the chair.

Col. A. K. McMahon, the society's delegate to the newly-formed Agricultural Federation of Rhode Island, submitted a report of the business transaction at the first meeting of the federation recently held at Kingston. When the forming of this federation was first talked of the name of the new organization was to be "The Rhode Island Federation of Agricultural and Horticultural Societies," but now, like other matters emanating from certain quarters, the importance once attached to the horticultural side of the question is no longer evident, perhaps for the reason that there is no immediate need for the further co-operation of the horticultural societies in promoting what is on occasions termed "the allied interests."

The new organization has declared war on all insect pests in general and on the gypsy and brown-tail moths in particular, detailing the first and second divisions to operate against the enemies. In the event of the San Jose scale giving trouble, it is proposed to call for volunteers for their immediate destruction, the volunteers to be in command of an officer from Newport, this consideration not in compliment to Newport, but recognizing the fact that Newport is the best place wherein to raise volunteers for work in the attainment of disinterested objects, it must of necessity be the place where volunteers can be quickly raised to suppress an enemy whose presence in Rhode Island can possibly have no other object than the siege of Newport.

Horticultural Society Awards.

At a meeting of the Newport Horticultural Society an interesting discussion took place with reference to the prevailing opinion that recently at least the society had been far too prodigal with silver medals. One member asked for information regarding the failure of the society to recognize what William Allan, the raiser of the most gorgeous of all decorative dahlias, Catherine Duer, had done, at the same time intimating that even at this late day some recognition might be shown him. The case in point is so unique, and the arguments were so well taken, the writer feels justified in assuming that the matter would be of interest outside of Newport.

One participant contended that as this dahlia was of world-wide fame the society would honor itself in honoring its originator. Another argued that dahlias were so easily raised, introducers of new varieties had no right to expect much recognition; he thought, however, if Catherine Duer had been shown as a novelty when it first appeared it would have received the society's silver medal. In reply to his first remark, it was instanced that several of the most valuable of the new varieties of nephrolepis were discovered almost by accident, although their discoverers were shrewd enough to recognize their worth instantly.

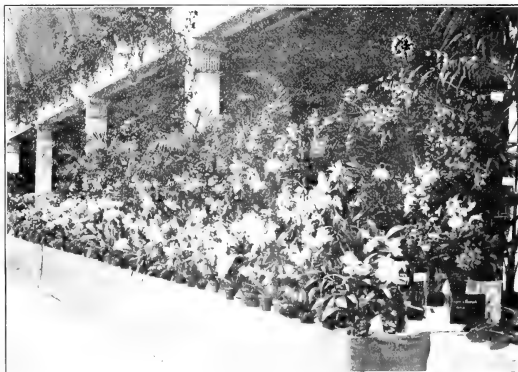
Commenting on this discussion, Mr. Editor, it seems to me that while more deliberation on the part of judges of



FIRST PRIZE STANDARDS, NEW YORK EXHIBITION.



HARDY GARDEN CHRYSANTHEMUMS, NEW YORK EXHIBITION.



ORCHIDS FROM LAGER & HERRELL, NEW YORK EXHIBITION.

exhibits would result in fewer medals being awarded, consequently enhancing their value to the recipients, yet the idea that the labor and skill necessary for the production of new varieties should in any great degree govern those making awards, is a mistaken one. It is the merit of the article, if we may call it such, that alone entitles it to an award, and the fact that the man who raised it did so without the exercise of skill, detracts in no way from its claims. Similarly, if the would-be beneficiary in such a case delays through reasonable cause exhibiting what he introduced, the fact that his introduction, despite this delay, with the loss of notoriety naturally ensuing, is still popular, and in increasing demand, would but emphasize the propriety of recognition.

DAVID MCINTOSH.

DUCHESSE COUNTY HORTICULTURAL SOCIETY.

The eleventh annual exhibition of this wide-awake organization was held in Columbus Institute, Poughkeepsie. The change from the Armory, where the shows have hitherto been held, seems to have given general satisfaction. The immense groups of decorative foliage and flowering plants showed off to excellent advantage. The winners in these classes were W. G. Saltford and H. J. Osterhout, gardener to W. P. Clyde, first and second for foliage and flowering plants, and T. P. Connors, gardener to Archibald Rogers, first for ornamental foliage group. Fred Sanger, gardener to F. R. Newbold, was first on group of ferns.

In chrysanthemum cut blooms, there was a keen rivalry, which brought out some notable exhibits of magnificent flowers. In the class for twelve blooms, distinct varieties, in vases, Edwin Jenkins of Lenox, Mass., took first prize. H. J. Allen, gardener to F. W. Vanderbilt, second, and H. J. Osterhout, third, all the entries being remarkably fine. F. E. Whitney, gardener to Winthrop Sargent, took first on vase of 25 white, vase of 25 yellow, and vase of 25 arranged for effect, 36 blooms, six varieties, in vases, and a number of firsts in the minor classes. First for vase of 25 pink went to H. J. Osterhout, also for 12 blooms pink. H. J. Allen had the best 12 yellow.

James Blair, gardener to Ogden Mills, won the Mrs. A. Rogers prize for display of roses, and the Knights of Columbus prize in same section went to Edwin Jenkins. W. G. Saltford won most of the first prizes in the carnation classes, his flowers being excellent. Violets were as usual a centre of especial interest. C. F. Bahret won first in all the open classes. The hall was tastefully decorated with rich evergreens, and colored lights.

WASHINGTON FLORIST CLUB.

As previously announced in HORTICULTURE, Tuesday, November 7, was especially set aside by the Washington Florist Club as Chrysanthemum Night.

Exhibits from local and out-of-town growers were asked through the medium of the press, but the response was disappointingly small. F. H. Kramer showed a very good collection of commercial varieties, the much deserving

being William Duckham, Colonel Apperson, and the old stand-by Major Bonnafont.

The club at this meeting decided to have certificates of merit engraved to be awarded for such meritorious new plants and flowers as may be exhibited at the meetings. This innovation was inaugurated by the club by unanimously voting a first-class certificate of merit for the pink seedling rose, Queen Genevieve, grown and exhibited by F. H. Kramer. He was also voted a certificate of merit for the new pink carnation named for himself.

CHRYSTANTHEMUM SOCIETY OF AMERICA.

Work of the Committees.

Boston, Mass., Oct. 21, 1965.

No. 15, seedling, bright yellow, Japanese incurved, exhibited by F. R. Piereson, Tarrytown, N. Y., scored 87 points, commercial scale.

New York, Oct. 31, 1965.

T. Richardson, bluish, Japanese type, exhibited by Charles H. Totty, Madison, N. J., scored 86 points, exhibition scale.

Mrs. John E. Dunne, terra-cotta, Japanese type, exhibited by Charles H. Totty, Madison, N. J., scored 88 points, exhibition scale.

Mrs. George Beach, yellow, sport of Mrs. Swinburne, exhibited by W. Duckham, Madison, N. J., scored 87 points, commercial scale.

Cincinnati, Ohio, Nov. 4, 1965.

No. 34-13-03, bright pink, silver reverse, extra fine combination, Japan, exhibited by Nathan Smith & Son, Adrian, Mich., scored 90 points Commercial scale.

No. 16 pink, incurved, exhibited by E. G. Hill & Co., Richmond, Indiana, scored 83 points Commercial scale.

FRED H. LEMON, Secy.

Richmond, Ind.

LENOX HORTICULTURAL SOCIETY.

At the great exhibition of this society which was described briefly in our last issue, the big groups of decorative plants were declared by experts to be of a quality never before excelled in this country. The crotons in Mr. Heereman's winning group were especially commented upon and the use of *Gypsophila elegans* intermixed with the foliage plants was most pleasing to the eye. The vase of Wm. Duckham chrysanthemums by Edwin Jenkins was a star. The vegetable display was simply magnificent and the competition exceedingly close. All were most tastefully arranged according to the methods prevalent in England and as a result the vegetable department received its full attention from the visitors.

CLEVELAND FLORIST CLUB.

At the last regular meeting of this club the new pink chrysanthemum *Flowers* was exhibited by Nathan Smith & Son. Messrs. Kelly, Brown and Graham were appointed judges. They pronounced it better and earlier than Glory of Pacific. Mr. Smith stated that the first blooms were cut October 9; the stems measured 2-1/2 to 3-1/2 feet.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual chrysanthemum show opened in Horticultural Hall, Boston, at noon, on Thursday, November 4. The general effect is good, especially in the large hall where the plant displays are placed, the walls being effectively masked with masses of pine and hemlock interspersed with fruit-laden boughs of *celastrus* and *anonymus*. The grouping of the plant entries is also very creditable. The display of decorative plants and orchids by McMulkin & Co. is particularly good from an artistic standpoint.

As to the chrysanthemum exhibits, it is a question if they excel the record of past years. It would be an easy matter to make the stereotyped claim of "best ever," but we prefer to be truthful. The showing of specimen plants is perhaps equal in quality, but certainly not in quantity, to the record of past years. As to the cut flowers, it can safely be said that no bigger blooms have ever been seen here. It is equally correct to say that some of the finish of previous years seems lacking—not in every instance but in general. Some grand blooms of that never-beaten beauty—Mrs. Jerome Jones and the "Yellow Jones" make us wistful for the return of the old days when foliage supplemented flower and every specimen bloom was a gem. The Jones type of chrysanthemum will hold a regal position, at least in Boston, so long as the new introductions—Australian or any other kind—come to the show with big coarse, bare necks, a foot long before you get down to a wrinkled apology for a leaf. In short, none of the new varieties approach the old standard as to foliage. William Duckham, however, is on the safe side of the line.

Very few Chinese entries or anemone entries are seen. The hardy kinds are also shown rather stingily by local growers, but R. Vincent & Son from Baltimore make a creditable showing of these interesting varieties.

At the farther end of the hall is a creditable group of conifers, aucubas, etc., from R. & J. Farquhar & Co.; H. H. Barrows & Son make a fine display of *Nephrolepis Barrowsii* and *N. pinnatifida* and there are several nice palm groups from local growers which help to make an appropriate background for the masses of solid color.

In the small hall the irrepressible carnation man is in evidence with some fine flowers that do not lack for admirers. Seedlings are shown by M. A. Patten, D. C. Kerr, H. A. Jahn, Backer & Co., George B. Anderson, L. C. Goddard and others. Among the gems are H. A. Stevens' Pink Lawson, Guttman & Webers Victory, S. J. Goddard's Helen Goddard, C. W. Ward's Robt. Craig and Wm. Nicholson's Financier and Aristocrat. The only rose on exhibition is Wellesley and it is good. Mr. Rothwell makes his usual generous exhibit of orchids, plants and cut blooms. *Cypripedium insigne* Sandera—a specimen with eight flowers—is a prime attraction. Lager & Hurrell are on hand with a splendid group and Mr. Knight of Julius Roehrs Company is wistfully looking for the shipment of plants from that establishment which should be here but is not and the express company will have to explain. A good collection of orchid

blooms comes from Col. Pfaff, George Melvin, gardener.

As we go to press we learn that the premier prize for eight specimen chrysanthemum plants is awarded to J. S. Bailey, E. W. Converse taking second. On the Gane special prize, E. J. Mitton takes first with a specimen plant of H. A. Gane.

The show continues open until Sunday night, with music afternoon and evening of Saturday and Sunday.

A large attendance of out of town gardeners is noted.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

The Conard & Jones Co., West Grove, Pa., submit for registration Canna Prince of India. Flowers deep crimson. Plant 3 feet high. Foliage dark green.

Canna Jupiter (C. & J. Seedling 1571). Flowers rich red. Plant 6 feet high. Foliage deep purple, nearly as dark as Black Beauty; some leaves 1 foot wide and 3 feet long.

Canna Venus (C. & J. Seedling 1588). Rosy pink with a mottled border of creamy yellow. Old flowers drop off clean as the new ones come. Height, 3 to 4 feet.

WILLIAM J. STEWART,
Secretary.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

It was Chrysanthemum Night on Tuesday, November 7. S. J. Hatch, gardener for D. W. Clemons, showed orchids, oncidiums, Cattleya labiata, and a vase of long-stemmed chrysanthemums. David Fraser, gardener for H. C. Frick, two vases chrysanthemums and one plant in pot, anemone-flowered Garza, with 150 blooms. T. Meehan & Sons, some 30 varieties of hardy chrysanthemums, all labelled. Schenley Park Greenhouses, Jno. W. Jones, foreman, four vases chrysanthemums, one variety, F. W. Vallis, being the largest on exhibition. A. R. Peacock, gardener Thomas Jenkinson, three vases very long-stemmed chrysanthemums and one vase splendid carnations, Enchantress, Fiancee, Lawson and others. N. Smith & Sons, Adrian, Mich.; two vases of new varieties: Brighthurst, Lanona and Mayor Weaver were well thought of. The Pittsburg Cut Flower Company showed a vase of chrysanthemums consigned by their patrons. Valley Greenhouses, Sewickley, Pa., a vase of good commercial varieties. Charles Peterson, East Liverpool, O., a sport from Queen, cream-colored. Godwin Bros., Bridgeville, Pa., a vase of commercial varieties with a sport from Ivory. Pittsburg Rose and Carnation Company, white and yellow. Eaton, William Duckham, Balfour, etc.

Over 40 members were present. The club is prospering both financially and in membership. The December meeting will be a smoker.

H. P. JOSLIN.

MINNEAPOLIS FLORISTS' CLUB.

The regular meeting was not held this fall, and in fact there seems to be no indication that it ever will be held. It is a fact, sad but true, that our florists do not stick together and co-operate in bringing about the best results



N. J. FLORICULTURAL SOCIETY'S EXHIBITION.

in the business. Meeting after meeting has been called by the secretary. R. W. Latham, but there has been no response, and he now feels, justifiably, we believe, that it is beyond one man's power to bring the club together again. However, it is to be hoped that our business men will sometime wake up to the fact that florists in other cities are holding flower shows, and in many other ways stimulating the interest of the public in their work, and that the best way to keep up the trade in Minneapolis and St. Paul is to follow their example and renew the life of their club.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

At the next meeting of the club on November 21, Prof. B. M. Watson of the Bussey Institution will speak on "Botany for Young Gardeners." There will be other attractions. A good number of applications for membership are already received for this meeting.

At the December meeting members will be asked to bring ladies. An especially attractive program is in preparation for this occasion.

W. N. CRAIG, Sec.

HINGHAM AGRICULTURAL AND HORTICULTURAL SOCIETY.

The annual chrysanthemum show of this society was held on November 3 in the town hall, Hingham Centre. A. A. Spear & Sons of East Weymouth, Miss Abbie A. Bradley of Hingham and Albert A. Pope of Cohasset were the most successful prize winners.

SHOWS IN PROSPECT.

Kansas City Flower Show, Convention Hall, November 13-18.

Indiana Floral Festival and Chrysanthemum Show, Indianapolis, November 14-18.

Rhode Island Horticultural Society chrysanthemum and carnation show, Providence, November 14, 15.

Milwaukee Flower Show, November 14-18.

Texas State Floral Society, tenth

annual chrysanthemum show, Waco, November 15-18.

New London County Horticultural Society (Conn.), chrysanthemum show, November 15, 16.

SCALES FOR JUDGING.

American Carnation Society.

Carnations.

Color	25
Size	20
Calyx	5
Stem	20
Substance	10
Form	15
Fragrance	5
	100

Chrysanthemum Society of America. Chrysanthemums.

Commercial.

Color	20
Form	15
Fulness	10
Stem	15
Foliage	15
Substance	15
Size	10
	100

Exhibition.

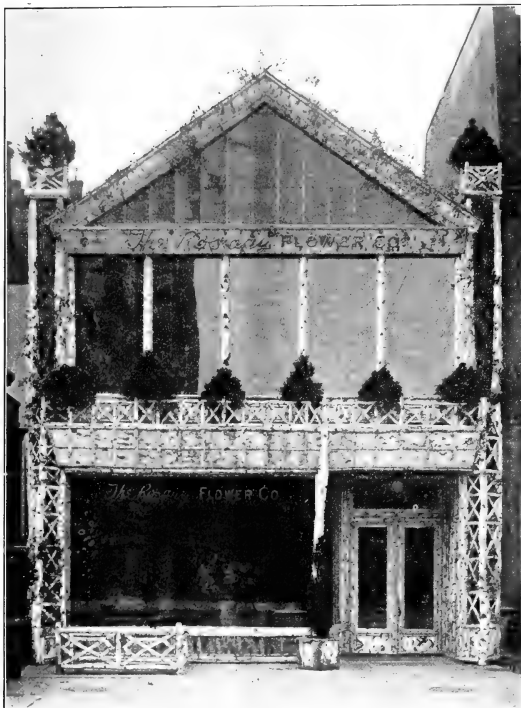
Color	10
Form	15
Fulness	15
Stem	10
Foliage	15
Depth	15
Size	25
	100

American Rose Society.

Roses.

Competitive Classes.	Novelties for Certifi.
Size	15
Color	20
Stem	20
Form	15
Substance	15
Foliage	15
Fragrance	5
Distinctiveness	10
	100

VICTORY

GUTTMAN & WEBER
43 West 28th St., New York
A RUSTIC FLOWER STORE.


Our illustration shows in a very inadequate manner the exterior of the remodelled establishment of the Rosary Flower Company, 34th street, New York. The finish exterior and interior is of birch bark and the rustic effect is very striking and unique. It serves to show off beautifully any green material or flowers and furnishes a fine background for decorative effect. Inside the walls are panelled with the same material and the furnishings are latticed with birch branches. Tables, chairs, etc., are

similarly made. Florists visiting New York should not fail to take a good look at this attractive place.

Notice has been issued in accordance with the state statute, to all property owners in Boston, to clear their trees, buildings, etc., of the gypsy moth egg clusters and brown-tail nests before December 1. The Mayor has deputed to the park commission the work after that date. They are to carry out the provisions of the statute and charge cost of same to the State.

CLUB AND SOCIETY NOTES.

The November meeting of the New York Florists' Club promises to be very interesting, as the nomination of officers for 1906 will occur at that time and a good show of chrysanthemums is promised also.

The Elberon Horticultural Society was organized at Elberon, N. J., on October 31st, with the following of ficers: President, W. D. Robertson; vice-president, Thomas Hall; secretary, W. H. Waite. The society starts with thirty charter members.

The sixteenth annual banquet of the Missouri Botanical Garden to the gardeners of the institution and invited florists, nurserymen and market gardeners was given at the Mercantile Club, St. Louis, on Wednesday, November 8.

The Bloomingdale Bros.' roof greenhouses covering 25,000 square feet of floor space at Third avenue and Fifty-ninth street, New York, were the scene of a great orchid exhibition last week. The collection of orchids in bloom as well as decorative plants of all kinds was very comprehensive and, being free to the public, the place was thronged with admirers. The benefit of these displays in stimulating an interest in plants and flowers cannot be overestimated.

CRIMSON RAMBLERS

A Georgia correspondent has placed the following in my hands for disposal.

	Per 100
Field grown 1 to 2 ft.	\$7.00
" " 3 ft.	8.00
" " 4 ft.	9.00
" " 5 ft. up	11.00

We sold some for same party last year; the stock proved *extra fine* and gave good satisfaction. I am assured they are equally first class this year.

Also a nice lot of Field grown H. P.'s at \$11.00 per 100, named varieties.

GEORGE C. WATSON

 Wholesale Seedman and
Commission Merchant,

1614 Ludlow St., PHILADELPHIA, PA.

Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable varieties in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. Our own retail sales are any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the flowers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers. Its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencillings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will outbloom that popular variety, Mrs. M. A. Patten, three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations and are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

Fieldgrown plants from ground,
\$15.00 per 100.

F. R. PIERSON CO.
Tarrytown-on-Hudson, N. Y.

WASHINGTON MAKES TROUBLE FOR PHILADELPHIA.

Washington won the bowling match in Philadelphia against that city and Baltimore for the S. S. Pennock cup with the remarkable score of 2768 for their five-man team. On Wednesday, November 8, Baltimore made 2480, Philadelphia 2368. The Washington men were some 200 behind in the series on their arrival, and their remarkable feat in overcoming that handicap and winning out made the crowd gasp and look goggle-eyed. A banquet followed the match, and was ably presided over by Thomas B. Meehan, the new President of the Florists' Club of Philadelphia, assisted by Commodore Westcott, Deacon Harris and other leading spirits of that organization.

THE COAL SITUATION.

It is a matter of general knowledge among coal operators and dealers that a strike in the mines is imminent about April 1, 1906. Surpluses are being stored up in anticipation, and the railroads, while trying to supply their trade regularly, are stocking up for themselves. It is advised that those who have not already secured all the coal they require for this coming season should not wait long after January before purchasing.

CATALOGUES RECEIVED.

Peter Lambert, Trier, catalogue for season of 1905-1906. Largely devoted to roses, of which the list of old varieties and novelties is exceedingly large.

John Lewis Childs Floral Park, N. Y.—Trade price list of lilies, gladioli, iris and other bulbs and plants. Profusely illustrated with handsome cuts. California Rose Co., Los Angeles, Cal.—Illustrated catalogue of roses.

Chicago, Ills., Nov. 9, 1905.
Telegram to Horticulture, 11 Hamilton Place, Boston:
Victory beat all its rivals here to-day.
A. J. GUTTMAN.

SAN FRANCISCO NOTES.

The officers and men of the Russian cruiser Lena, which has been a prisoner in this harbor for months, gave an elaborate luncheon on the evening before their departure for Vladivostok, and patronized the florists magnanimously.

At the Palm Garden of the Palace Hotel on November first, at the luncheon given in honor of Miss Juliet Garber, the floral adornment was entrusted to the Blocks of Polk street. Autumn leaves with all their rich coloring formed the centerpiece, about which were arranged grape vines bearing their fruit, and persimmons with their branches, African daisies completing the floral scheme.

A hybrid melon, a cross between a watermelon and a musk melon, is reported to have been perfected by C. A. Harwood, a local horticulturist of note. It has the rinds of the former and seeds of the latter, and it is said it will keep from one season to another, remaining perfectly sound and maintaining its flavor as well as apples. Some specimens weigh thirty pounds.

A premature blossom show is now on exhibit across the bay on the Henry Hammill ranch. A five-acre Tartarian cherry orchard is in full bloom. The blossoms are perfect and the trees heavily laden. It is a state of affairs unheard of previously in this locality. If the blossoms develop the fruit will be killed by the frost, but the blossoms will probably be ruined by rains before the fruit can develop.

GREENHOUSES BUILDING OR PROJECTED.

Newport, R. I.—Wm. Jurgens, one house
Dighton, Mass.—G. H. Walker, house 13 x 60.
Milwaukee, Wis.—Wm. Edlefsen, four houses.
Beverly, Mass.—Lester Leland, conservatory.
Harrisburg, Pa.—J. D. Brennemann, three houses.

AMERICAN CARNATIONS IN ENGLAND.

During the last two years I have had much to do with American Carnations in various ways, but especially in table decoration from July till November, and I have no hesitation in saying that the American varieties, such as Fair Maid, Floriana, Enchantress, and Mrs. T. Lawson are much superior in size to any English varieties I have seen. They are not only non-splitters, but they are strong in the stems, which are longer than English varieties, and that is a point of considerable importance to decorators, and what is pleasing too, they are deliciously fragrant.—South Hanks in Journal of Horticulture.

BOXWOOD SPRAYS

We can supply this article in liberal quantity

DWARF EVERGREENS

for filling window boxes, etc. Good variety at reasonable prices

CEDAR BARK

In demand for covering window boxes, rustic interiors, etc.

SAMUEL S. PENNOCK,

The Wholesale Florist of
PHILADELPHIA

1 ore Cloves
at 5 P. M.

1612-1618 Ludlow St.

VICTORY

GUTTMAN & WEBER
43 West 28th St., New York
HORTICULTURAL EXHIBITION AT BRUGES, BELGIUM.

(Continued from Page 499.)

crispum, Miltonia vexillaria, the finest being a charming pure white form named Queen Alexandra, Masdevallia Harryana Sanderae, nearly white, Cypripedium insigne Sanderae, C. Maudiae, C. callosum Sanderae, C. bellatulum sulphureum, and many well-flowered plants of the type, a giant-specimen *Brassia verrucosa* with thirty spikes, together with many specimens of *Oncidium macranthum* with trailing spikes 10 feet in length. But to enumerate the varieties staged would occupy too much of your valuable space. The group was undoubtedly the best ever staged by this firm.

No. 2 photograph is a group of begonias. These secured first prize, and showed great variation both in size, form and coloring, also the numerous frilled flowers which predominated. Several acres are devoted to the culture of tuberous begonias by Messrs. Sander. Several new kinds of B. Lafayette type, planted outside the beds, also secured the highest awards, being profusely flowered and in many colors.

The group of stove and decorative plants shown in the frontispiece secured the first prize for fifty varieties. Among those staged were *Polypodium Knightiae*, a new handsome stove fern, *Draacena Goldiana*, *Angiopteris evecta*, *Pandanus Sanderi*, *Heliconia Edwards Rex*, a rich bronze foliage, *Panax Balfouri*, *Alocasia argyrea*, *Begonia Fearnley Sander*, new Rex type, *Acalypha Sanderi*, *Nephrolepis Scotti*, *Croton Fred Sander*, a new and very promising commercial variety with green and golden variegation. *Nepenthes*, *dracaenas*, *philodendrons* and others, all specimens of their kind and artistically staged. These were made up from Sander & Sons Nurseries, St. Albans, England and Bruges.

A. Sander

Prince Louis of Battenberg, the British admiral who is now visiting America, was in Washington last week. A large reception was given him by the British ambassador, Sir Mortimer Durand. The floral decorations, which were very elaborate, were furnished by George H. Cooke.

HOW TO GROW MUSHROOMS

My 24pp booklet on M. Cult., 10c. New supplement on outdoor culture, by J. G. Gardner, included. The plain truth and nothing but the truth. Mushrooms are profitable if properly handled. The art of properly handling has to be mastered like everything else. This booklet tells you how in a clear, practical way.

G. C. WATSON, 1614 Ludlow St. Philadelphia, Pa.

AZALEA INDICA



We can supply fine budded plants in all the leading varieties, such as Deutsche Perle, Apollo, B. A. Alba, Niobe, Vervaeckiana, Simon Mardner, Van der Cruysen, etc.

	Per doz.	Per 100
10-12 inch diam.....	\$ 4.50	\$35.00
12-14 inch diam.....	6.00	45.00
14-16 inch diam.....	7.50	55.00
16-18 inch diam.....	2.00	90.00

Order now before cold weather sets in.

We also have a good supply of specimen KENTIAS, BAY TREES and other decorative plants.

BOBBINK & ATKINS,
Nurserymen and Florists, RUTHERFORD, N. J.

The Forcing Book

By L. H. BAILEY

The latest up-to-date work on forcing vegetables; full instructions how to grow tomatoes, cucumbers, lettuce, and all other vegetables (except mushrooms). 226 pages, 88 illustrations. Price, \$1.00, postpaid.

C. J. Pennock says: "It would have saved us dollars and dollars if we could have had it a few years ago."

Falconer's Mushroom Culture, \$1 postpaid
Robinson's Mushroom Culture, 60c.
Watson's Mushroom Booklet, 10c.

GEORGE C. WATSON

Wholesale Seedman and Commission Merchant—

1614 Ludlow Street, PHILADELPHIA

Consignments of seasonal stock and buying orders solicited

THE CHRYSANTHEMUM

Its Culture for Professional Growers and Amateurs

By Arthur Herrington

The most complete and comprehensive work on the cultivation of the chrysanthemum that has yet been published in America. Its scope and character may be gleaned from the list of contents, which comprises chapters on culture for exhibition; composts; planting; benches, boxes or pots; general culture details; crown and terminal buds; feeding; its objects and application; care of the buds; exhibition; and judging; specimen plants, chrysanthemum, plants in six-inch pots; commercial culture, raising from seed and hybridizing; sports; hardy chrysanthemum; chrysanthemums for south and west; chrysanthemums in Australia; insect pests and diseases; classification and selection of varieties for special purposes; and history of the chrysanthemum. The book will be welcomed both by the professional and amateur growers of chrysanthemums for the lucid, comprehensive as well as the practical character of its contents, which, if strictly followed, cannot fail to bring about the desired results, namely, the obtaining of large chrysanthemum flowers in the greenhouse, and a profusion of bloom in the garden. Handsomely illustrated. 106 pages. 5x7 inches. Price, 50c.

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Fresh Spawn Always on hand.

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HORTICULTURE PUB. CO.

11 Hamilton Place, Boston, Mass.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

You Perfectly Safe in Placing Your Order for the

New Scarlet Seedling

ROBERT CRAIG

C. W. WARD, Originator

For the Following Reasons:

1st. It is the best scarlet carnation in existence. 2nd. The color is just what is desired. 3rd. The stock is in perfect health. 4th. There will be no lay down on ROBERT CRAIG as we are prepared to fill all orders. We have 20,000 stock plants in the best of condition and shall fill orders according to promise.

PRICES

For Selected Cuttings for Delivery
Commencing December 1, 1905.

\$12 00 per 100. \$100 per 1000.
2500 at \$95 per 1000.
5000 at \$90 per 1000.
10000 at \$80 per 1000.

A Discount of 5 per cent when cash is sent with the order

IF YOU HAVE NOT PLACED YOUR ORDER ALREADY, SEND IT IN AT ONCE. If it is possible for you to visit our place and see Craig growing we would appreciate it very much and will furnish transportation from and to the station. Electric trains now run from Brooklyn Bridge to Queens every 30 minutes.

COTTAGE GARDENS COMPANY - - Queens, L. I., N. Y.

BUSINESS CHANGES.

Meinhardt & Dierkes succeed Robert Meinhardt at St. Louis, Mo.

The Rosary, Boston, (J. J. Casey, Mgr.) is about to move to 214 Clarendon street.

The Missouri Floral Company has been incorporated, to do business at Kansas City, Mo.

Winfield Seamans, who has been conducting a greenhouse establishment at Anthony, R. I., has discontinued and taken a place elsewhere.

L. Mosco, formerly a commission florist in New York and Chicago, is now located at 161 New Montgomery street, San Francisco, in the wholesale cut flower business.

The business of the late William Ghormley, wholesale commission florist at 57 West 28th street, New York, has been sold under date of November 1, 1905, to Horace E. Fromont, who has been book-keeper in the establishment for the past five years. The purchase is absolute, Mr. Fromont having paid cash for bill of sale including accounts, fixtures, etc., and having assumed all the liabilities of the business. It will be carried on as heretofore, James Coyle continuing in part management of the establishment.

Department leaflet, No. 6, of the American Civic Association is out. It concerns railroad improvements and contains some handsome illustrations of station plantations along the line of the Boston & Albany and Pennsylvania railroads.

It is never too early nor too late to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

Keap St. Greenhouses, Brooklyn, N. Y.

NEPHROLEPIS BARROWSII, \$25 per 100

SCOTTII, 2½ in., . . . 5 " "

BOSIENS, 2½ in., . . . 3 " "

HENRY H. BARROWS & SON,
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FERNS! 2 1-4 in. Pots

Ten varieties. Fine, well grown stock, suitable for immediate use.

\$3.00 per 100; \$25.00 per 1000.

S. S. SKIDELSKY

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NEED ANY

GLOIRE DE LORRAINE?

We have 50 two-inch stock, fine healthy plants, which we wish to sell, having more than we can use, at \$10.00 per 100.

E. A. BUTLER & SON, FLORISTS, NIAGARA FALLS, N. Y.
526 Main Street

Daisies, Daisies and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect pests. Prices on application. Flowers in any quantity October 1st to July 1st.
FLETCHER of AUBURNDALE,
Stall 1, Boston Flower Market, Park St.

PAEONIES

Queen Victoria (Whitley).... \$9.00 per 100
Festiva Maxima 30.00 per 100
Fragrans (the tall grower and bloom producer)..... 60.00 per 100
For other varieties of Paeonies and root rates, write.

Lucretia Dewberry & Miller

Red Raspberry.....\$5.00 per 1000

GILBERT H. WILD, - SARCOTIA, MO.

PANSIES

Over one million plants ready from our Famous Strain. None better. \$1.50 per 500, \$2.50 per 1000.
Daisies (Baltis) fine plants, \$2.00 per 1000.
Forget-me-not, Hardy blue, \$3.00 per 1000.
Geraniums out of 2 1-2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

J. C. SCHMIDT CO., - BRISTOL, PA.



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HORSESHOE BRAND and PLANTS

Ralph M. Ward & Co.

2 West Broadway, New York.

Lilies, Japanese Plants

BAMBOO STAKES

SUZUKI & IIDA

31 Barclay Street, New York

Cold Frame Mats

Made of rye straw, cover two frames, \$1.50.
Made of burlap lined with wool, \$1.50.

WM. ELLIOTT & SONS,

201 Fulton Street, - - New York.

Telephone, 3427 Cortlandt.

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When you need Florist's Supplies order from H. Bayersdorfer & Co., the Florist Supply House of America.

OUR POMPEIAN WARE has created an instant success. You want to have it. And you will order more.

BEECH SPRAYS In Brown and Green for decorations are an appropriate article to have. *Because* they can be used more than once, scores—yes hundred of times if you are careful.

RUSCUS WREATHS a new and attractive wreath for funeral effect.

WREATHS French Red Immortelle made in American style for Xmas are gaining a stronghold among the trade. Why not try them. Our Magnolia, Laurel, Beech and Holly Wreaths prepared in Green and Brown are enjoying an excellent demand.

BASKETS in endless variety and shapes are to be had. See our illustrated list.

We have everything in supplies. Send us your orders, we can take care of them.

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A NEW DESIGN, MADE FROM RAINBOW SILK

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6 INCHES \$6 per Doz.

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High Grade Cut Blooms**

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

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14th and H Streets N.W.
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Notice to all Florists in the U. S. not represented in Washington: You are hereby advised that you can solicit orders from your customers for Floral greetings for the desks of their favorite Congressmen at the convening of Congress and by having us execute them for you guarantee them perfect satisfaction. Z. D. BLACKISTONE.

A. Gude & Bro.

FLORISTS

1214 F ST., WASHINGTON, D. C.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per too, \$2.
Script Letters, a Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

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122 West 25th St., New York

Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware, Decorative Greens and Florists' Requisites.

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OLIVE STREET Established 1873
Long Distance Phone Bell Lindell 676

American Beauties

Chrysanthemums

THE LEO NIESSEN CO.

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Store Open 7 A. M. to 8 P. M.

In writing advertisers, mention Horticulture

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SEASON NOW ON

Can supply large quantities on short notice. Best varieties at reasonable prices.

Telephone 6268-6267 Main

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15 Province St.
BOSTON

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

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Weiland & Risch

Leading Western Growers and Shippers of

Cut Flowers

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VAUGHAN & SPERRY

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If you wish to buy or sell, see them first

'PHONE CENTRAL 2571

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VALLEY

W. J. Baker, 1432 So. Penn Sq.
PHILA.

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White Violets

Gardenias

Cattleyas

Samuel S. Pennock

The WHOLESALE FLORIST OF PHILA.

1612-1618 Ludlow Street. Store closes 8 P. M.

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Wholesale Growers of

CUT FLOWERS

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In writing advertisers, mention Horticulture

CHAS. W. McKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids

White Violets and all Cut Flowers

A Daily Shipment

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BRIDES, MAIDS AND GREENS

Wholesale Florist

W. E. McKISSICK

1221 Filbert St
PHILADELPHIA

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—to DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Nov. 7		Nov. 7		Nov. 8		Nov. 10	
ROSES								
Am. Beauty and Edgely Fan, & Sp.	25.00	to 35.00	20.00	to 25.00	20.00	to 25.00	15.00	to 20.00
Extra.....	15.00	to 20.00	12.50	to 15.00	12.00	to 15.00	10.00	to 12.00
No. 1.....	8.00	to 12.00	8.00	to 10.00	8.00	to 10.00	6.00	to 8.00
Lower grades.....	2.00	to 6.00	3.00	to 6.00	4.00	to 5.00	2.00	to 4.00
Bride & Maid..... Fan, & Sp.	8.00	to 12.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
Extra.....	1.00	to 3.00	2.00	to 3.00	3.00	to 4.00	4.00	to 6.00
No. 1 and Lower gr.	2.00	to 4.00	.....	to 2.00	1.00	to 2.00	.50	to 2.00
Liberty, Fancy, & Special.....	8.00	to 12.00	4.00	to 6.00	6.00	to 8.00	6.00	to 8.00
Ordinary.....	4.00	to 6.00	2.00	to 3.00	2.00	to 4.00	.50	to 4.00
Carnot and Kaiserin Fancy.....	8.00	to 10.00	.....	to 6.00	6.00	to 8.00	8.00	to 10.00
Ordinary.....	2.00	to 6.00	2.00	to 3.00	3.00	to 4.00	.50	to 2.00
Golden Gate, Chateaux, Fan Y.....	6.00	to 8.00	4.00	to 6.00	5.00	to 6.00	4.00	to 6.00
Ordinary.....	2.00	to 4.00	.....	to 1.00	1.00	to 4.00	.50	to 2.00
CARNATIONS								
Fancy Class.....	4.00	to 6.00	3.00	to 4.00	2.50	to 3.00	2.00	to 2.50
General Class and Lower grades.....	2.00	to 3.00	1.50	to 2.00	1.00	to 2.50	1.00	to 2.00
MISCELLANEOUS								
Cattleyas.....	15.00	to 50.00	.....	to 40.00	40.00	to 50.00	.....	to 50.00
Gay of the Valley.....	3.00	to 4.00	1.00	to 4.00	2.00	to 4.00	3.00	to 5.00
Chrysanthemums.....	1.00	to 2.00	3.00	to 20.00	4.00	to 15.00	4.00	to 15.00
Violets.....	.50	to 1.25	40	to 25	.25	to .50	.35	to .60
Adiantum Cuneatum.....	.50	to 1.00	.75	to 1.00	1.00	to 1.00	.....	to 1.00
Crownam.....	.....	to 1.00	.....	to 1.00	.....	to 1.50	1.25	to 1.50
Smilax.....	10.00	to 15.00	12.50	to 15.00	10.00	to 15.00	15.00	to 12.00
Asparagus Plumosus, strings.....	25.00	to 3.00	25.00	to 50.00	15.00	to 50.00	15.00	to 50.00
Sprengeri, bunches.....	15.00	to 25.00	25.00	to 50.00	25.00	to 50.00	20.00	to 30.00

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37-39 Randolph Street, CHICAGO

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Carnations
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VICTORY

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43 West 28th St., New York

Flower Market Reports.

BOSTON The market conditions at present are easily described in very few words. In short the market is as bad as it can be and has seldom been so completely demoralized at this season. On the curbstone good roses are offered at five for five cents. Chrysanthemums overtop everything, and so long as they last in their present abundance there is but little prospect for improvement.

BUFFALO Democratic weather for past week and up to the time of making this report has affected business immensely. Chrysanthemums are in their glory and sell fairly well considering the amount coming in. At times a little glutted in the medium grade, and need a little urging to be moved. Select stock of carnations and roses still scarce while ordinary goods are always to be had. Beauties in fine quality, the demand being but fair, and no raise in prices. Lily of the valley a little slow, and violets at times a little scarce, but enough to go around. Prices stiffening a little. Green goods plentiful.

CHICAGO With the Flower Show here this week, everyone seems to be on the jump. Choice stock is being bought up by all retailers for display at the show. Business otherwise has been very quiet, perhaps the rainy weather being the cause. Choice chrysanthemums in colors of pink, white, red and yellow are abundant, and high prices prevail. Inferior qualities of chrysanthemums are plentiful and prices are accordingly low. Eastern violets are very fine and values have advanced considerably, owing to a big demand. Roses, such as Beauty, Liberty, Bridesmaid, Kaiserin, Chateaux, etc. come in large quantities and bring moderate prices. Harrisii lilies are very scarce. All green goods are plentiful and sell well.

CLEVELAND Chrysanthemum is king these bright, cold days and some exceptionally good ones are shown. Violets and lily of the valley are also fine, but must necessarily take second place in favor of the bright, pungent-scented flowers of fall. Roses are good and are bringing good prices. Brides and Bridesmaids are a trifle small but the cut has somewhat in-

FANCY OR DAGGER

FERNS No. 1 STOCK,
only 75c per 1000
Brilliant bronze or green,
75c per 1000

GALAX,

Use our laurel festooning for your Decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application. We make it daily, gathered fresh from the woods. Hand made, full sizes, 4c, 5c and 6c per yard. Once used, always used. Branch Laurel, 35c per large bundle, Princess Pine by the pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

creased and prices range from \$2.00 to \$6.00 per 100. Beauties are showing up well; prices from \$3.50 to \$6.50 per dozen. In price they take the lead of chrysanthemums which bring from 75c. to \$5.00 per dozen.

LOUISVILLE Business conditions the previous week were very good, stock in all lines satisfactory. Chrysanthemums sell unusually well; especially is this the case with the smaller sizes. The demand for carnations is very good, the supply short, and the quality good. Roses find a good demand, with the quality and supply all right.

MINNEAPOLIS AND ST. PAUL Business is good in the Twin Cities. The cold weather started things going in dead earnest and the big foot-ball game last Saturday gave the trade quite a boost. Chrysanthemums in maroon and gold were in big demand for the Minnesota contingent, while the Wisconsin "rooters" cleaned out the white chrysanthemums and tied them with gay scarlet ribbons. Roses are good. Beauties are scarce and Liberties are not plentiful, but Brides, Bridesmaids, Kaisersins, Chateaux, Golden Gates and Perles are in abundance and in splendid condition. Carnations and violets are scarce and small as yet. Lilies are neither in abundance nor in demand.

NEW YORK Election week shows the usual breakdown in everything pertaining to the flower business. The chrysanthemum also has to take its share of the abuse for the prevalent inactivity and slaughtered values. Violets are stiffening up their backbone somewhat in anticipation of the Yale onslaught next week. Fine orchids are in good supply.

PHILADELPHIA The snap and life reported in our last issue did not keep up in this week's market, but with some hard pushing most of the good stock was disposed of at fairly remunerative prices. We are having another warm spell and that does not help things any. Still, take it for

all in all, the cut flower business is pretty good at present in Philadelphia.

WASHINGTON Roses and chrysanthemums are coming in very good. While the supply is quite large, business has been good enough to consume it all, and scarcely anything has been thrown away. The price on roses runs from 4 to 6c., and chrysanthemums from 6c. up, very good stock being sold at 12c., and specimen Amortia bringing in some cases as high as 25c.

Herman Lips is now proprietor of the Colonial Nurseries at Bedford, Mass.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Plants.

Everything in Season.

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and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities.
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MANUFACTURERS OF
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In writing advertisers, mention Horticulture

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FINEST ROSES and VIOLETS

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the
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Special Attention to Shipping Orders

Telephones: 2200, 2201, Madison Square

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 4 1905		First Half of Week beginning Nov. 6 1905			Last Half of Week ending Nov. 4 1905		First Half of Week beginning Nov. 6 1905	
Roses									
Am. Beauty, fan and sp.....	20.00	to 30.00	20.00	to 25.00					
extra.....	10.00	to 15.00	12.00	to 14.00					
" No. 1.....	6.00	to 8.00	8.00	to 10.00					
" Lower grades.....	1.00	to 3.00	2.00	to 5.00					
Bride & "Maid, fan and sp.....	5.00	to 8.00	6.00	to 8.00					
extra.....	3.00	to 4.00	4.00	to 5.00					
" No. 1 and lower grades.....	1.00	to 2.00	1.50	to 3.00					
Liberty, Richmond fan and sp.....	6.00	to 12.00	6.00	to 10.00					
Ordinary.....	1.00	to 3.00	1.00	to 3.00					
Carnot and Kaiserin, fancy.....	5.00	to 6.00	5.00	to 6.00					
Ordinary.....	1.00	to 2.00	1.50	to 2.00					
Golden Gate, Chateaux, fancy.....	5.00	to 8.00	5.00	to 6.00					
Ordinary.....	1.00	to 2.00	1.00	to 2.00					
Carnations									
Fancy Class.....	2.00	to 3.00	2.00	to 3.00					
General Class and Lower grades.....	.50	to 1.00	1.00	to 1.50					
Cattleyas.....	40.00	to 60.00	50.00	to 60.00					
Lily of the Valley.....	3.00	to 4.00	3.00	to 4.00					
Chrysanthemums.....	2.00	to 50.00	2.00	to 4.00					
Oncidiums.....	2.00	to 3.00	2.00	to 3.00					
Lilies.....	6.00	to 10.00	6.00	to 10.00					
Violets.....	.75	to 1.50	1.00	to 1.50					
Adiantum Cuneatum.....	.75	to 1.00	.50	to 1.00					
Crocus.....	1.00	to 1.25	....	to 1.25					
Smilax.....	5.00	to 10.00	6.00	to 12.00					
Asparagus Plumosus, string.....	25.00	to 35.00	30.00	to 25.00					
Sprenger, bunches.....	10.00	to 25.00	10.00	to 20.00					

JOHN YOUNG

Wholesale FLORIST

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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New York

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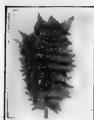
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Lowest Wholesale Rates

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And all kinds of Seasonable Flowers

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WHOLESALE FLOWER MARKETS. TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Nov. 7	DETROIT Nov. 8	BUFFALO Nov. 7	PITTSBURG Nov. 7
ROSES				
Am. Beauty, fan, and sp.	20.00 to 25.00	..... to 40.00	20.00 to 25.00	25.00 to 30.00
extra.....	12.50 to 15.00	..... to 20.00	12.50 to 15.00	20.00 to 25.00
" No. 1.....	8.00 to 10.00	15.00 to 20.00	6.00 to 12.00	10.00 to 12.00
" Lower grades.....	..... to 6.00	8.00 to 12.00	3.00 to 6.00	5.00 to 6.00
Bride and Maid, fan, and sp.	5.00 to 6.00	8.00 to 10.00	0.00 to 7.00	..... to 8.00
extra.....	3.00 to 4.00	6.00 to 8.00	5.00 to 6.00	..... to 6.00
" No. 1 and Lower gr.	2.00 to 3.00	3.00 to 5.00	3.00 to 4.00	..... to 4.00
Liberty, fan, and sp.	..... to 4.00	..... to 6.00	6.00 to 8.00	6.00 to 12.00
Ordinary.....	..... to 4.00	..... to 6.00	6.00 to 8.00	6.00 to 12.00
Carnot and Kaiserin, Fancy.....	5.00 to 6.00	4.00 to 6.00	6.00 to 8.00	6.00 to 12.00
Ordinary.....	3.00 to 4.00	..... to 4.00	4.00 to 6.00	3.00 to 5.00
Golden Gate, Chateaux, Fancy.....	2.00 to 5.00	4.00 to 6.00	4.00 to 6.00	6.00 to 8.00
Ordinary.....	..... to 4.00	..... to 4.00	3.00 to 4.00	3.00 to 5.00
CARNATIONS				
Fancy Class.....	3.00 to 4.00	..... to 3.00	2.50 to 4.00	3.00 to 4.00
General Class.....	1.50 to 2.00	..... to 2.00	1.00 to 2.00	1.50 to 2.00
MISCELLANEOUS				
Cattleya.....	..... to 1.00	..... to 50.00	40.00 to 60.00	..... to 1.00
City of the Valley.....	..... to 1.00	..... to 4.00	..... to 4.00	..... to 1.00
Violets.....	..... to 75	50 to 1.00	.60 to 1.00	.50 to 1.50
Lilies.....	12.00 to 15.00	..... to 15.00	5.00 to 20.00	4.00 to 25.00
Chrysanthemums.....	2.00 to 20.00	1.50 to 2.00	..... to 2.00	..... to 2.00
Adiantum Cuneatum.....	..... to 1.00	..... to 2.00	..... to 2.00	.75 to 1.00
Crocus.....	..... to 1.00	..... to 1.25	1.25 to 1.50	..... to 1.25
Smilax.....	10.00 to 15.00	20.00 to 30.00	12.00 to 15.00	2.50 to 14.00
Asparagus Plumosus, strings.....	..... to 25.00	..... to 50.00	40.00 to 60.00	10.00 to 50.00
Sprengeri, bunches.....	25.00 to 35.00	27.00 to 40.00	24.00 to 30.00	20.00 to 30.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters
34 HAWLEY STREET - - BOSTON

List of Advertisers

Page	Page
Allen Wm. Stuart Co. 495	Leuthy A. & Co. 492
Aschmann Godfrey. 497	McCarthy N. F. & Co. 512
Baker Wm. 512	McConnell Alex. 512
Bambrick, Thos. H. 512	McCall Charles W. 512
Barrows H. H. & Son. 510	McKissack W. E. 512
Bayersdorfer H. & Co. 514	McManus Jas. 512
Beaven, E. A. & Son. 513	Metropolitan Material Co. 510
Berkmann, P. J. Co. 492	Michell H. F. 494
Black, Chas. 490	Nichigan Cut Flower Exchange 515
Blackstone G. D. 513	Miller, O. A. 492
Robbink & Atkins 499	Millard Charles 515
Boas W. J. & Co. 513	Mirand, Frank 514
Boudinot A. T. 494	Moninger J. C. 510
Bonnot Bros. 513	Mt. Hissarlik Numer. 490
Boston Florist Letter Co. 513	Murdach J. B. 515
Breck Joseph & Sons 494	Nielsen Leo Co. 512
Brettmeyer's J. Sons 513	Perkins L. K. 490
Budling J. A. 512	Peacock Samuels 508
Burnham Hitchings Piersion Co. 520	Perkins John J. 515
Burpee W. A. & Co. 494	Phila. Cut Flower Co. 512
Butler, E. A. & Son. 510	Perce F. O. Co. 508
Chicago House Wrecking Co. 510	Pierston F. R. Co. 508
Chicago Carnation Co. 491	Pittsburg Cut Flower Co. 491
Cochran Mushroom & Spawen Co. 500	Pye R. C. 491
Coles, W. H. 492	Rawson W. W. & Co. 494
Cooke G. H. 511	Raynor John L. 514
Cottage Gardens 490	Reed & Keller 511
Crowl Fern Co. 513	Reid W. 513
Dolger Wm. 511	Reinberg Peter 512
Dimmock A. 492	Robinson H. M. & Co. 492
Drer H. A. 490-492-510	Roehrs Julius 492
Dryaht R. J. 510	Rolker August & Son. 495
Elizabeth Nursery Co. 490	Salford, Geo. 510
Elliott Wm. & Son. 510	Sander & Son. 492
Euler J. C. 510	Schell Lumber 494
Ernest W. H. 510	Schmidt J. C. Co. 510
Farquhar R. & J. & Co. 491	Seclay John A. 510
Fletcher F. W. 510	Scott John 510
Ford Bros. 514	Shurg, Partridge & Co. 510
Forest Nursery & Seed Co. 490	Sheridan W. F. 514
Francis H. F. 514	Sievers J. H. & Co. 491
Fronow W. & Sons. 490	Sugers E. G. 512
Grey T. J. & Co. 491	Situations & Wants. 512
Gude A. & Bro. 513	Skidelsky S. S. 510
Gurney Heater Mfg. Co. 510	Stern J. & Co. 513
Gutman Alex. J. 491-507-510-513-514	Stein A. T. Lumber Co. 510
Hall Assn. 510	Stevens H. A. 491
Hammond Paint & Slug Shot Works. 44	Thompson J. M. & Co. 490-494
Heller & Co. 494	Thornburg Walter 510
Hewes A. H. & Co. 510	Treadwell & Schenck. 514
Horan E. C. 514	Troy, J. H. 490
Horticulture Pub Co. 500	Vaughan's Seed Store. 490
Hunt E. H. 512	Vaughan and Sperry. 512
Igoe Bros. 491	Walsh M. H. 490
Jones Hiram T. 490	Wash M. H. Co. 510
Kastine W. F. 515	Watson G. C. 507-509
Kentucky Tobacco Product Co. 510	Weber C. 491
Kervan Co., The 515	Weber L. 491
Kessler, P. F. 515	Weber H. & Sons. 491
King Cons. Co. 510	Welch Bros. 512
Klinkner A. 511	Weland & Risch. 512
Koral Mfg. Co. 511	Weston Bros. 512
Kronm. et. E. N. 491	Wild Gilbert H. 510
Lager & Hurrell. 492	Winterh. C. 490
Lang Julius 515	Yonck E. F. 512
Langjahr, Alfred H. 515	Yong J. John 514
	Yong & Nugent 514
	Young Thos. Jr. 511

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For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

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For page see List of Advertisers.

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For page see List of Advertisers.

ARAUCAIARIS.

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For page see List of Advertisers.

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For page see List of Advertisers.

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Bermuda Harrisall Bulbs.
For page see List of Advertisers.

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For page see List of Advertisers.

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R. & J. Farquhar & Co., Boston.
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Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CALLAS.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

CARNATIONS.

John H. Slevers & Co., 1251 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

F. R. Pierson Co.,
Tarrytown-on-Hudson, N. Y.
Carnation, Variegated Lawson.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.
H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings Variegated Lawson.
For page see List of Advertisers.

E. N. Kroninger, Allentown, Pa.
For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.
J. M. Thorburn & Co., 36 Cortlandt St., New York.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atro, N. J.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.

EVERGREENS.

Hiram T. Jones, Elizabeth, N. J.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Philadelphia, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrows.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

W. W. Coles, Kokomo, Ind.
Boston Ferns.
For page see List of Advertisers.

G. C. Watson, Philadelphia.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

J. Stern & Co., 1928 Germantown Ave., Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Kozal Mfg. Co., 26 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Brettmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 29th St., New York.
For page see List of Advertisers.

W. H. Donohoe, 2 W. 29th St., New York.

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To find where to get the

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Supplies in the Country.

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(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.**FLOWER POTS.**W. H. Ernest, 25th and M Sts.,
Washington, D. C.
For page see List of Advertisers.A. H. Heves & Co., Cambridge, Mass.
For page see List of Advertisers.**FOLDING BOXES.**Weich Bros., 15 Province St., Boston.
For page see List of Advertisers.Wm. J. Boss & Co., Philadelphia, Pa.
For page see List of Advertisers.**FREESIAs.**H. F. Michell & Co., Philadelphia, Pa.
For page see List of Advertisers.**GLASS.**Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.**GLAZING POINT.**H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.**GREENHOUSE BUILDING MATERIAL.**Burnham Hitcheson Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.Klug Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.John C. Moulger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.**HARDY FERNS AND SUPPLIES.**H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
For page see List of Advertisers.Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.**HEATING APPARATUS.**Burnham Hitcheson Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.**IMPORTING HOUSES.**August Rolker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.
For page see List of Advertisers.R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.**JAPANESE PLANTS.**Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.**MANETTI STOCKS.**Thos. Meenan & Sons, Inc.,
Dreshertown, Pa.**MASTICA.**F. O. Pierce Co., New York, N. Y.
For page see List of Advertisers.**MICE PROOF SEED CASES.**Heller & Co., Mountclair, N. J.
For page see List of Advertisers.**MUSHROOM SPAWN.**Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.**NICO-FUME.**Kentucky Tobacco Product Co.,
Louisville, Ky.
For page see List of Advertisers.**NICOTIANA SANDERAE.**Sander & Sons, St. Albans, Eng.
For page see List of Advertisers.**NURSERY STOCK.**Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.**ORCHID PLANTS.**Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.O. A. Miller, 48 Watson Ave.,
E. Orange, N. J.
For page see List of Advertisers.**PAEONIES.**Gilbert H. Wild, Sarcoise, Mo.
For page see List of Advertisers.Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.**PATENTS.**E. G. Siggers, Washington, D. C.
For page see List of Advertisers.**PEERLESS REPAIR CLAMP.**A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.**PLANTS, BEDDING.**J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Nots, Gerani-
um, Etc.
For page see List of Advertisers.**PLANTS DECORATIVE.**A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.P. J. Berckmans Co., Fruitland Nurseries,
Augusta, Ga.
For page see List of Advertisers.**PLANTS, HARDY.**H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.**POINSETTIAS.**

G. C. Watson, Philadelphia, Pa.

PUBLICATIONS.G. C. Watson, Philadelphia.
Mushroom Culture.
For page see List of Advertisers.**RETAIL FLORISTS.**Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.Alex. McConnell, New York.
For page see List of Advertisers.Thomas Young, Jr., New York.
For page see List of Advertisers.W. H. Donohue, 2 W. 24th St., New York.
Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.J. Breitmeier's Sons, Detroit, Mich.
For page see List of Advertisers.Young & Nugent, New York.
For page see List of Advertisers.**RETAIL FLORISTS.**

(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.**ROSES.**M. H. Walsh, Woods Hole, Mass.
Harly Roses, H. T. Rose and Rambler.
August Rolker & Sons, 31 Barclay St.,
New York.English-Grown Roses.
For page see List of Advertisers.E. A. Butler & Son, Niagara Falls, N. Y.
Begonia Gloire De Lorraine.
For page see List of Advertisers.Hiram T. Jones, Elizabeth, N. J.
Crimson Rambler.
For page see List of Advertisers.Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.California Rose Co., Los Angeles, Calif.
Field-Grown Roses.R. T. McGorum, Natick, Mass.
Grafted Roses.**SCOTT FERN.**John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.**SEEDS.**W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
Cyclamen Seed.
For page see List of Advertisers.Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.Forest Nursery & Seed Co., McMinville,
Tenn.Forest Tree and Shrub Seeds.
For page see List of Advertisers.Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.Forest Tree and Shrub Seeds.
For page see List of Advertisers.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.**STEAM TRAP.**

E. Hildard, Youngstown, O.

TEXAS MISTLETOE.

Wm. H. Anderson, Brownwood, Texas.

TREES.Elizabeth Nursery Co., Elizabeth, N. J.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitcheson Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.**WHOLESALE FLORISTS.**

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.George A. Sutherland Co., 34 Hawley St.,
Boston.

Weich Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kastig, 383-87 Elliott St., Buf-
falo, N. Y.

WHOLESALE FLORISTS.

(Continued.)

Chicago.

For page see List of Advertisers.

J. A. Budlong, 37 Randolph St., Chicago.
 E. B. Hunt, 76-78 Wabash Ave., Chicago.
 Chas. W. McKellar, 51 Wabash Ave., Chicago.
 Peter Reinberg, 51 Wabash Ave., Chicago.
 L. Randall Co., 21 Randolph St., Chicago.
 Welland & Risch, 55 Wabash Ave., Chicago.
 Wietor Bros., 51 Wabash Ave., Chicago.
 Vaughan & Sperry, 69 Wabash Ave., Chicago.
 E. E. Winterow, Co. 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
 Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
 Miami Ave. Wm. Dilger, mgt.

New York.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 20th St., New York.
 Ford Bros., 48 West 28th St., New York.
 H. E. Froment, 57 W. 25th St., New York.
 Alex. J. Guttman, 49 West 28th St.
 E. C. Horan, 55 West 28th St., New York.
 Philip F. Kessler, 55 W. 20th St., New York.

Julius Lang, 53 West 30th St., New York.
 A. H. Langjahr, 55 W. 28th St., New York.
 James McManus, 50 W. 30th St., New York.
 Chas. Millang, West 28th St., New York.
 Frank Millang, 55-57 W. 28th St., New York.

John J. Perkins, 115 W. 30th St., New York.
 John I. Raynor, 49 W. 28th St., New York.
 George Salford, 46 W. 29th St., New York.
 W. F. Sheridan, 59 W. 28th St., New York.
 Trendly & Schock, 44 W. 28th St., New York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. St., Philadelphia.
 Dumont & Co., Philadelphia.
 W. E. McKissick, 1014 Filbert St., Philadelphia.
 Leo Nielsen Co., 1217 Arch St., Philadelphia.
 S. S. Pennock, 1612-18 Ludlow St., Philadelphia.
 Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
 Liberty St., Pittsburg, Pa.
 J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

AZALEA INDIKA, KENTIAS, BAYS.
 Rohlsink & Atkins, Rutherford, N. J.

For page see List of Advertisers.

BOXWOOD SPRAYS, DWARF EVERGREENS, CEDAR BARK.
 S. S. Pennock, Philadelphia.

For page see List of Advertisers.

CARNATION ROBERT CRAIG.

Cottage Gardens Co., Queens, N. Y.

For page see List of Advertisers.

CARNATION VICTORY.

Alex. J. Guttman, 43 W. 28th St., N. Y.

For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

Polly Rose, Wannamaker, Ivory, White
 Bonafont, Perrin, Pacific, Enguehard, Bal-
 four, Combes, Hattaway, Yellow Bonafont,
 Chestnut Hill, Golden Chardick, Riemann,
 \$10 per doz., \$6.00 per 100, Peirce Bros.,
 Waltham, Mass.

CRIMSON RAMBLERS.

G. C. Watson, Philadelphia.

For page see List of Advertisers.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publish-
 ing Co., New York.

For page see List of Advertisers.

The Forcing Book, G. C. Watson, Phila.

For page see List of Advertisers.

RETAIL FLORIST.

Z. D. Blackstone, 11 & 11 S. S., Washing-
 ton, D. C.

WHOLESALE FLORIST.

Wm. Stuart Allen, 153 W. 28th St.,
 New York.

For page see List of Advertisers.

SEED TRADE.

The Adulterated Seeds Farce.

Next to the free seed humbug, the seed purity campaign of the Department of Agriculture is looked upon by the initiated as one of the most amusing farces of the age. According to the latest bulletin there could be found over all this broad land, with its eighty millions of inhabitants only three samples of red clover adulterated, two of them in Massachusetts and one in Indiana. Any seedsmen in a populous center could find worse than that in half an hour's walk. Besides, the buyer is not taken in. If he wants stuff cheap, he may be sure he will get cheap stuff—poorly cleaned and not very pure. As long as farmers have weeds in their fields so long will there be weeds among the seeds of our cereals, grasses, and clovers. The amount of sifting and winnowing done by the seedsmen will be determined by his customers. He is going to give them what they want, be it re-cleaned, very clean, clean, not so clean, pretty good, or trash—and charge accordingly; and no one is to blame but the farmers themselves. There's nothing the matter with your seedsmen, Uncle Sam. It's your farmers you want to "go for." Educate them to appreciate good goods and avoid cheap trash, and the latter will quickly disappear from the market. You will never do it by publishing a few seedsmen's names. "With how little wisdom are we governed," sighed the old sages. We are not only that, but also governed too much and in the wrong places. It ought to be said in this connection, however, that it is Congress, and not James Wilson, that is responsible for the present farce.

Free Seeds.

For the first time since free seed distribution was inflicted on the seedsmen of this country, they are taking practical steps to put a stop to it. An appeal is to be made to the President to recommend its discontinuance in his annual message to Congress. The seedsmen claim that the advocates of this practice have not a leg to stand on, and that as at present conducted there are no grounds of public necessity or public morals that can be urged for its continuance.

During Secretary Morton's administration of the Department of Agriculture the annual distribution was about 12,000,000 to 14,000,000 packets, while for the past three or four years it has been about 40,000,000. Under the present system of free seed distribution about 1,000,000 packets are retained by the Secretary of Agriculture to be sent out by the Department, and all the balance is apportioned among the Congressmen and Senators for distribution under their franks. The seedsmen feel that they can certainly make a strong case, and that if properly presented to the President his keen sense of justice and desire to give every one a "square deal" can be relied upon to secure his active co-operation for putting an end to this injustice to their industry.

Late yesterday afternoon the indebtedness of the Whitney-Eckstein Seed Company, about \$45,000, was paid to the Citizens' Bank by Nathan Eckstein, who negotiated the loans with Cashier Henry J. Block, who worried

WANTS.

GOOD MEN

When you need good men,
 skilled or unskilled, write:

THOS. H. BAMBRICK

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Help of all kinds, including that for Florists, Nurserymen, Seedsmen and Horticultural trade generally.

Cabbage plants, Jersey Wakefield; all season successful, \$1 per thousand. Address Edward Woodfall, Glen Burnie, Md.

MR. WALTER KENNEDY, Floral Expert, wide experience of Australia and Southern Hemisphere generally, will shortly arrive, and will be glad to receive offers of engagement in first-class Floral Store. Address Expert, care Horticulture, 11 Hamilton Place, Boston, Mass.

SITUATION WANTED—Long experience in out-door gardening and thorough knowledge of laying out large estates and general landscape work. Address, K. R. care HORTICULTURE, 11 Hamilton Place, Boston.

WANTED—A competent palm grower. Only one who has had ample experience and who is an up-to-date man need apply for a permanent position. Address, Palm Grower, care Horticulture, 11 Hamilton Place, Boston.

WANTED—Salesman; bright, active man, thoroughly competent, for ribbons, supplies and cut flowers. Apply with full particulars as to salary wanted, experience, references, to S. S. Pennock, 1612-1618 Ludlow Street, Philadelphia.

himself to suicide because he thought they were not to be made good.

The money paid was in settlement of the entire indebtedness of the firm to the bank. The bank will not lose a dollar through the transaction, and in view of the developments of yesterday the bank officials say that Cashier Block's suicide must have been the result of a temporarily unbalanced mind. In the loans made to the Ecksteins there was nothing criminal and the worst that can be said of him is that he was indiscreet in accepting paper from a bosom friend whom he trusted implicitly without investigating to see if it was good. The Ecksteins had dealt with the bank for a year or more and their paper had never been questioned.

An examination of the late cashier's books shows that everything is in perfect shape and not one dishonest act was disclosed by the investigation.—Buffalo Times, Oct. 31.

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Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

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Everything in PINE and HENLOCK BUILDING LUMBER
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Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

GLASS

FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

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CYPRESS SASH BARS
32 feet or longer
HOT BED SASH

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GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

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GREENHOUSE WRECKERS

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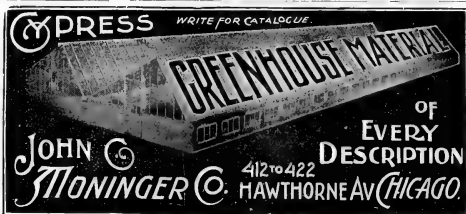
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MEND CRACKED GLASS IMMEDIATELY AND PERMANENTLY.
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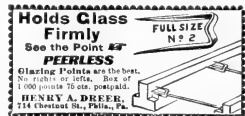
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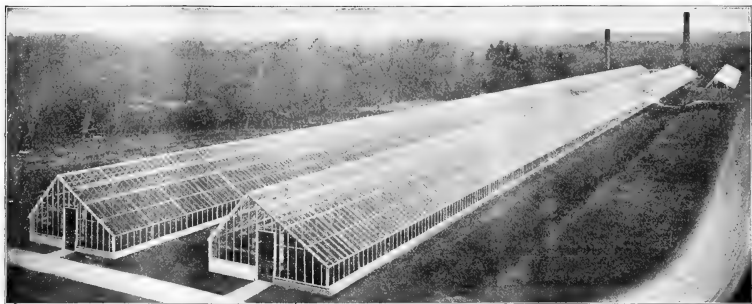
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35th and Iron Sts. CHICAGO





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THE BIG THINGS

It's the same with us either way. We build the big things in a big way, we build the smaller things in the same big way. By that we mean that none of the big things are too big for us to handle easily and quickly; none of the smaller too small to receive the same careful attention.

But if you are going to build bigger this spring get it ready now, so you'll be ready then.

BURNHAM-HITCHINGS-PIERSON COMPANY,

Greenhouse Manufacturers and Builders,

1133 BROADWAY COR. 26th STREET, NEW YORK.

BOSTON BRANCH, 819 TREMONT BUILDING

TOBACCO-PAPER

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Strongest on the market!

Packed in Friction-Top Tins
Preventing Loss by Evaporation.

34 sheets, 75c. 144 sheets, \$3.50;
288 sheets, \$6.50 (only 2½c. each).

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HORTICULTURE

Vol. II.

NOVEMBER 18, 1905

No. 21



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HORTICULTURE

VOL II

NOVEMBER 18, 1905

NO. 21

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPIECE—Chrysanthemum Show, Massachusetts Horticultural Society.		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
ROSE GROWING IN CALIFORNIA—Illustrated....	527	American Beauty Roses at Poughkeepsie Show— Illustration	531
THE NEIGHBORHOOD HOUSE—G. A. Parker.....	527	The Chicago Show.....	532
BRITISH HORTICULTURE—W. H. Adsett.....	528	New York Florists' Club.....	532
HINTS ON BOILERS AND HEATING.....	529	The San Francisco Show.....	533
A BOON FOR CATALOGUE WRITERS—Chester Jay Hunt	529	St. Louis Flower Show.....	534
EDITORIAL	530	Cincinnati Florists' Club.....	534
NEWS OF THE CLUBS AND SOCIETIES		Kentucky Society of Florists.....	534
The Kansas City Show.....	531	Gardeners' and Florists' Club of Boston.....	534
F. R. Pierson Company's Exhibit at Tarrytown Show—Illustration	531	CUT FLOWER MARKET REPORTS	
		Boston, Buffalo, Louisville, The Twin Cities, New York, Philadelphia.....	537
		OBITUARY	
		Denys Zirnigobel	542

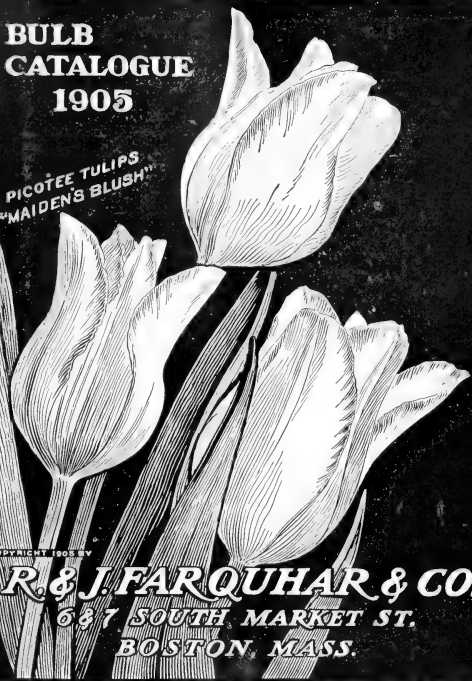
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Rose Growing in California

Some years ago the present president and general manager of the California Rose Company went to Los Angeles and as an experiment started selling a general line of ornamentals through solicitors throughout the Pacific coast and southwest; it took but a few months to demonstrate the fact that roses were what the people wanted—sales running probably 90 per cent. to roses. Good field-grown stock of good varieties suitable for shipping could not be obtained, however, in commercial quantities and it was found necessary to go ahead and produce before much could be accomplished in a satisfactory trade,—satisfactory to the seller as well as buyer. Thus the California Rose Company was organized—it being probably the only exclusive rose concern



in the country,—and they are growing in the field the largest stock and probably best assortment of ever-blooming roses in the country; a large stock of the hybrid perpetuals are also grown. All roses are grown on own roots exclusively.

Planting in the field is done any time from December to April of each year. Most of the propagating is done during the summer and fall,—the wood being taken from the plants in the field which are in bloom; cuttings being rooted under glass in frames out of doors; horse manure being used instead of steam pipes. After cuttings are well rooted and established, no further protection is given them and after being transplanted and established they go into the field to remain until dug for market. Digging is done from December to February. Roses here retain their foliage and bloom through entire year; stock is hardened off by withholding the water; as no rain is had from spring until winter, con-

ditions are entirely under the grower's control and stock can be pushed as conditions warrant or hardened off at will any time during the fall.

A great advantage obtained here in propagating work is that they have sunshine—bright weather—practically all the time; a propagator can readily appreciate what this means. This should be an ideal spot for the rose specialist—one capable of doing something good in crossing, hybridizing, etc., and while so far as known such a man has not yet appeared, it is to be hoped that the right man will soon step into the field and demonstrate what can be accomplished. Many of the good varieties throw good seed pods which seldom do so either under glass or out of doors in the east.

Why go to Holland for roses when we can turn out better stock at home—stock which is actually of better value for the consumer—the man with a garden?

The Neighborhood House

Hartford, Conn., Nov. 8, 1905.

Editor of HORTICULTURE:

There was dedicated on Nov. 7 in the village of Weatogue, in the town of Simsbury, a "Neighborhood House," the first, I think, in the New England States, although there may be others. The "Neighborhood House" has had rapid, strong and desirable growth in Chicago during the last three years, and is being developed in other cities. These houses are much like neighborhood club rooms, with all the conveniences of the club, only that they have no selected class of membership, but are open to all who happen to live in the neighborhood. The expenses are paid by the Park Department. They are open the year around and every day in the year. Their success has been phenomenal. Their appreciation and use by the people exceeds all expectation. It is a movement to make the Park Department more useful to the people in the larger cities. There does not seem to be any logical reason why a similar house in a small country neighborhood should not be equally helpful, and now it has come to the little village of Weatogue. It came as a gift from Miss Antoinette R. Phelps of Hartford, who gave her ancestral home. This house is of the old style, built over a century ago, three stories high; a delightful old colonial home. The lower floor has been rearranged with an assembly room that will seat one hundred, kitchen, pantry, reception rooms, etc. Above the first floor are eleven rooms, some of which are to be occupied by a caretaker, the remainder by the public. The house will be kept open day and evening for the use of the neighborhood.

There seems to be a movement throughout this country for the establishment of those things which the people will use as a community, and this, perhaps, is a beginning of what may be an extensive movement in New England. Therefore, I think it well to record the opening of this "Neighborhood House" in the town of Simsbury in your paper of wide circulation. There are many neighborhood halls and club rooms for periodical or occasional use in these States, but a "Neighborhood House" with the latchstring always out, controlled by the neighborhood as a whole and not by any sect or association, I believe is an innovation in our country towns and to be a milestone in our upward progress.

G. A. Parker

British Horticulture

A FILLIP FOR THE FLORISTS.

After experiencing a period of slackness, the florists have lately had a busy time. The celebration of the Nelson centenary and the funeral of Sir Henry Irving, coming in the same week, considerably taxed the resources of the leading London florists. In recent years there has been a tendency to dispense with flowers at the funerals of public men, but fortunately for the trade this was not the case at the interment of the illustrious head of the British stage. A wealth of floral tributes from all classes—from Queen Alexandra to some humble cabmen—filled one side of the south transept of Westminster Abbey. The total value of the wreaths was estimated at £5000, some valuable ones being contributed by the great actor's American admirers. For the Nelson celebration a large number of wreaths were placed at the base of the gaily bedecked column in Trafalgar Square. Amongst these was a massive circlet of British oak leaves, with the word "Nelson" outlined in white roses, this being the work of Mr. P. H. Garcia, one of the oldest florists at Covent Garden. From Devonshire came a fragrant wreath of white roses, with the initial "N" worked in violets. Chrysanthemums in various designs were also conspicuous. The florists at Covent Garden have not been so busy for some time. The early and severe frosts which have set in this month have played sad havoc with out-door flowers, and the rigorous change came somewhat unexpectedly. It has had the advantage of checking the huge supplies which were glutting the market. The bareness of the private gardens also necessitates more orders being placed with the florists.

ENLARGING THE FLOWER GARDENS.

The fact that another addition is being made to Covent Garden flower market is an indication that the trade in the Metropolis is on the increase. Prices, however, in recent times have not been so satisfactory as they might be. There is no doubt that greater attention is being given to the use of flowers for decorative purposes at social functions, although our street decorations at national festivals in most cases stick closely to the garish and flimsy paper imitations. The flower trade on the wholesale side has enormously extended in recent years. A few months ago a large and imposing building at Covent Garden was opened for the foreign flower trade, this reaching extensive proportions in the winter season. This new hall is to be utilized shortly for a show of market chrysanthemums. The latest addition to the other flower market has necessitated the pulling down of several shops in Russell St. and Wellington St. adjoining the office of the "Gardeners' Chronicle." When completed the extension will afford the additional stand accommodations which is required to relieve the congestion existing in busy seasons. Although the wholesale trade has progressed, the retailers in the Central Avenue have in late years found

a great difference. Thirty or forty years ago the arcade where the high-class florists are situated used to be daily visited by rich customers, who came to the market to select their cut bloom. The increase of traffic in the market, rendering it a matter of risk to take private carriages amongst the lumbering wagons, and the fact that florists' shops have sprung up close to the doors of the wealthy people have eclipsed the Central Avenue's former glory. Still there are several good class florists in that part of the market and here many apprentices are trained in the art of floral decoration.

THE CULT OF THE CHRYSANTHEMUM.

A new movement has gained a footing for democratizing the chrysanthemum. Through the enterprise of a London evening paper a Chrysanthemum League has been established amongst the children in the Metropolis. Early in the year the proprietors gratuitously distributed 7,000 plants of the autumn flower amongst the London children, these being supplied by Messrs. Cragg, Harrison and Cragg, Heston. A show of the blooms which had been produced by the youthful gardeners proved immensely popular. It was attended by 25,000 persons, the biggest crowd which has ever filled the Royal Horticultural Hall, whilst at least 10,000 people were unable to obtain admission. Several of the leading trade growers added to the attractiveness of the exhibition by sending displays of cut bloom and pot plants. It is generally recognized that this encouragement of a love of flowers amongst the rising generation is an admirable step. There is no doubt that the chrysanthemum is continuing to grow in favor with the British public, and now that there is an alliance between this country and Japan, the popular flower of the East will undoubtedly gain in admirers. The National Chrysanthemum Societies have done a great deal in this direction. The societies are holding their second show of the season at the Crystal Palace on Nov. 1 and 2. This is usually the most important of the three fixtures, as it takes place when a large number of varieties are available. The various trade growers will be well represented, and there will be no dearth of novelties. Chrysanthemum growers have a big choice in being able to receive the pick of the continental and Australian introductions as well as those raised at home. The difficulty is that the trade catalogues are becoming surfeited with varieties in such a way that the purchaser is puzzled in making a selection, owing to the profusion.

POTATO POINTS.

The days of sensational prices for new seedling potatoes are over—the "boom" had a short and lively career. There is still, however, a keen interest taken in the merits of the new varieties which are to take the place of the worn out sorts. The National Potato Society is working in the interests of the humble tuber, in whose honor an exhibition is to be held next month at the Royal Horticultural Hall. This week Mr. Walter

P. Wright, the Secretary of the Society, gave an interesting lecture on potato topics before the members of the Royal Horticultural Society. At the outset he advocated flavor and not size as the chief essential in a potato. Six varieties answering this condition were Factor, Golden Wonder, Peacemaker, Windsor Castle, Up-to-Date, and Langworthy. As regards successful cropping, Mr. Wright advocated seed which was "greened" and boxed. If they put all the potatoes in the summer or autumn in a heap, the large and small, the sound and unsound together, and leave them to the spring they could not escape a certain amount of deterioration. The boxing of seed was by no means troublesome or expensive, and it was now largely adopted by many of the leading growers. At the show next month there will undoubtedly be a falling off in the number of new varieties, compared with last year, when they totalled nearly 200. The Society is performing a useful and necessary work in endeavoring to classify the synonyms. There are undoubtedly several varieties which are masquerading under various aliases, and this has caused great confusion. In connection with the show it is proposed to hold a conference of potato growers at which the question of diseases affecting the tubers will be discussed.

W. H. Adsett.

London, Eng., Oct. 26, '05.

Hints on Boilers and Heating

In the last issue I drew your attention to the principal features to be considered in selecting a boiler—viz., economy of fuel consumption, simplicity of construction, easily cleaned, and durable. There are, however, other matters to consider. The ash pit should be large enough to hold ashes for at least one day's firing, and some space to spare, so that the heat from same will not warp and destroy the grates. In most makes of boilers grates are so arranged and fitted that they require an experienced mechanic to remove and replace them. This method is not only expensive, but causes unnecessary delay. They should be so arranged that any ordinary workman or fireman could perform the work; they should also be fitted to work easily—and shake and dump.

The several sections making up the boiler should be placed so as to leave a space between each section of at least 3-8 of an inch to provide for construction and expansion, and as the nipples connecting the sections are tapering and supposed to be closely fitted, these spaces can be left without any danger of the boiler leaking. The spaces can be filled with asbestos and cement. The flow and return outlets to the boiler should be of sufficient size to admit of a free circulation, for if the water is retarded in its flow it will require an excess of fuel. A boiler rated to take care of 1000 square feet of radiating surface, for instance, should be provided with flow and return outlets equivalent to at least the area of a four-inch internal diameter pipe for each outlet.

My next article will suggest methods of placing and connecting boilers.

X.

A Boon to Catalogue Writers.

Editor HORTICULTURE:

Dear Sir:—I have been greatly interested in the notes that have recently appeared in HORTICULTURE regarding the new color-plates issued under the auspices of the French National Chrysanthemum Society. I secured a set early in the past summer and have used the plates a good deal in recording the results of my amateur gardening, and I have been surprised at the success with which they have done the descriptive part of the work.

It seems to me that this color-scheme presents an opportunity to the professional horticulturist that should not pass unnoticed. The number of colors and tones represented in the work, as well as the thoroughly practical nature of the plan, should make this an invaluable means of reducing the vagaries of catalogue description to a highly efficient standard. If such a color-scheme might be generally adopted, and descriptive lists made to conform to it, the advantages to the trade would, I believe, more than offset the objection that all catalogues would read alike and no one have something that the other fellow did not list.

I have always been interested to note in the English or French catalogues the number of colors mentioned in the descriptions, and to compare this accuracy with the simple "red" or "yellow" of the American lists; words that may mean much or little to the prospective buyer. In this respect the new scheme should be of great service to the trade; for even the novice in the study of color should find little trouble in determining the likeness of any flower to one of the forty-two shades of red, or the sixty shades of yellow and orange, represented in the two volumes of plates. These colors, too, do not lack the life and brilliancy of tone that is necessary. In only a few instances have I failed because the colors were dull; such brilliant tones as the phloxes have, or the clear-cut colors of the delphinium, can be matched quite readily.

If the series of plates were to be officially adopted, some changes might be advisable; but even as they are, the plates are quite able to stand any test, however exacting it may be, that they can be submitted to. I should like very much to see them adopted as a means toward making the catalogue maker's task not only easier, but more satisfactory to himself and those who read what he has written. My copy was purchased through a New York house and cost, not ten dollars as was stated in the issue of HORTICULTURE for October 14th, but seven dollars, a low price considering what must have been the enormous cost of publishing the plates.

Chester Jay Hunt

Montclair, N. J.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

standpoint at least. Let us hope that this assurance may be seconded by an awakened public interest in these enterprises. No matter how deeply the gardener and florist may be engrossed in the competitions and the professional ability displayed, the show fails of its mission in a large degree if the public be not aroused to appreciation. We like to see the groups of intelligent craftsmen here and there throughout the exhibition hall intently discussing and comparing views on this or that display, but unless this is supplemented by a ten to one representation of the public the exhibition is not doing its full duty and it behooves us to look about and find out the cause. Get the people in somehow.

Each year sees an increase in the use of hardy ornamental material for interior decoration of hotels, clubs and private halls for the winter season. Neat little conifers in many species and varieties in green and gold and blue, aucubas, euonymuses and ivies in tubs singly or massed in jardinières and boxes adorn windows, balconies, vestibules, etc., and afford a grateful cheeriness in contrast to the dreariness of winter weather. They require little care, do not mind the cold and, on occasion, can be made to serve as a useful background for palms and such delicate material, large sizes of which are transported only at great risk during freezing weather.

Our nurserymen are beginning to awaken to the growing importance of this branch of their industry and some of them are making a specialty of this class of plants, keeping them in cold storage sheds ready for use at any time. A number of these will be found among HORTICULTURE's advertisers. A nice assortment of the stock they offer is a wise investment for any decorating florist and will save money for him.

If there is one thing more than another that stands out conspicuously in the career of the carnation during the past dozen years it is the courage and self-reliance of the carnation growers. When they have a new variety that they believe in, they place it boldly in the lime light; it goes to the exhibitions to be criticised and passed upon by expert judges and then it is advertised liberally and persistently. Not all the varieties exploited make good the promise of their sponsors, but the lines are drawn more tightly every year and a carnation that runs the test successfully now can be relied upon as a rule. The season is now here when our advertising columns should and, we hope, will be well filled with the announcements of the introductions for the coming season. It is acknowledged that the life of a variety under high tension conditions is usually but from three to four years and the carnation grower who would keep up with his competitors cannot afford to ignore the new ones as they come along. We do not hesitate to recommend a good trial of every variety that our readers find advertised in the columns of HORTICULTURE.

Use of the rambling roses in cut sprays
It is not too late to take in a supply of rambling and trailing roses for winter forcing for use as cut sprays in decorative work. This has been so little done that it is safe to say they will create a sensation wherever made use of during the coming season. The double sorts such as Lady Gay and Debutante, also Crimson Rambler, of course, will prove the most serviceable. They cannot equal the single-flowered varieties in elegance, but the latter lack the staying powers so essential for general decorative use.

Popular holiday bloomers
Advance indications point to a greatly increased demand for Lorraine begonias and cyclamens for Christmas, and those florists who have not already supplied themselves with a stock of these useful and popular plants should lose no time in doing so if they aspire to keep up with the times. As to the first-named some complaint was formerly made as to its keeping qualities. We do not hear much fault found now, as it has demonstrated that the trouble lay entirely in the growing and treatment and not with the character of the plant itself. Grown intelligently with moderate temperature and slowly hardened off Begonia Gloire de Lorraine is good for at least three months in a dwelling-house, under reasonable care.

Two factors in a successful exhibition
The many cups, medals and cash premiums contributed by horticultural business houses, which appear in the various exhibition schedules this season attest the interest which our commercial establishments are beginning to take in the exhibitions. With the rivalry in prize offering as well as prize winning, which seems now in prospect, the future of the horticultural exhibition looks bright, from a professional

NEWS OF THE CLUBS AND SOCIETIES

THE KANSAS CITY SHOW.

The Kansas City idea in flower show management has again proven its efficacy. The enterprising management of the Convention Hall, with its financial stability and intelligence in the science of interesting the public, co-operating with the Missouri Horticultural Society, the officers of which have pre-eminently the esteem and confidence of the horticultural craft in this and neighboring States, has succeeded in bringing together a superb display of the flower growers' art and, best of all in arousing the public to an appreciative support of the enterprise.

The hall is admirably adapted to the purpose of an exhibition. The space is ample for a show of imposing proportions, and the amphitheatre affords seating capacity and an impressive view of the show, yet there is lacking that vast overhead emptiness which is so hard to overcome in edifices such as Madison Square Garden in New York, and the Coliseum in Chicago. The only criticism that can be made of the management this year is the locating of some of the most interesting cut chrysanthemum classes in the side corridors, where their full value as a feature of the show is partially lost. Otherwise the arrangement and grouping are beyond criticism.

We shall not exhaust our readers' patience with a long list of the exhibitors and the prizes they won, but will confine ourselves to noting a few of the more prominent exhibitors and what they had to show that was of especial merit. Of the local exhibitors taking prominent part were Samuel Murray, W. L. Rock Floral Co., Chas. T. Schaeffer Floral Co., W. J. Barnes, People's Floral Co., J. M. Kellogg, A. Newell and Humfeldt Floral Co. Unimpeachable in beauty was the group of Gloire Lorraine begonias from Samuel Murray; the mixed begonias from W. L. Rock and People's Floral Co.



F. R. PIERSON COMPANY'S EXHIBIT AT TARRYTOWN SHOW

were also excellent. Crotons, Kentias, Boston ferns, Scotti ferns, groups of berried plants and other staple things were well displayed and the classes enthusiastically competed for by the above-named contributors. The groups of palms occupying 100 square feet, were superb, the winners being Murray, Rock and Kellogg, in order named. In the groups of decorative plants arranged for effect, excellent judgment and tact were displayed, and the decision as to merit was a difficult one. Messrs. Rock, Murray and Schaeffer were the winners in order named. The Pierson fern and its improved variety elegantissima were shown in unprece-

dent beauty. There is no record of such superb specimens having been shown anywhere hitherto as were put up by W. L. Rock.

In the chrysanthemum section the displays of cut flowers were superlatively good. Those great exponents of chrysanthemum culture, E. G. Hill Company of Richmond, Ind., Nathan Smith & Son, of Adrian, Mich., and H. W. Buckbee were all heavy contributors of their very best product, and anyone who knows the abilities of this trio when arrayed in friendly emulation, will realize better than can be described, the result. F. R. Pierson Co., W. J. & M. S. Vesey and several of the local growers also took an active part in the cut flower competitions. The big vases of one hundred blooms and of fifty blooms could not be excelled as showing the utmost development of high-grade chrysanthemum culture to date.

The varieties in competition in the hundred vases were Yellow Eaton, Col. Appleton and Percy Plumridge, Yellow Eaton from E. G. Hill Co. being winner. In chrysanthemum plants, the principal exhibitors were Vaughan's Seed Store and H. W. Buckbee, and the quality was better than ordinarily seen in the exhibitions.

Tuesday, Rose Day, brought out sensational entries in abundance. The greatest interest centred in the class for one hundred American Beauties, there being seven entries for the premiums. Pochlmann Bros., Chicago, were first with a superb hundred, followed consecutively by Schaeffer, Reinberg, Rock and Budlong. Other classes were well filled by the same exhibitors, also Wieter Bros. Kasting and Murray were first with Turnford Hall begonias, orchids and ferns; second, Arthur Newell with Lorraine begonias; third, Schaeffer Floral Co., with Liberty roses and valley.

Wednesday was carnation day. Some splendid exhibits were made, the gold



AMERICAN BEAUTY ROSES AT POUGHKEEPSIE SHOW

medal for one hundred blooms, any color, going to Chicago Carnation Company for Enchantress; the gold medal for one hundred blooms, any color seedlings, to the Thompson Carnation Co., for Robert Craig; and first for one hundred blooms, any variety not yet in commerce, to Guttman and Weber, for Victory. Other first prizes were won by Thompson with the Belle, Guttman with Victory, Rock with Harlowarden, Chicago Carnation Company with Enchantress, Schaeffer with Lawson, Pechmann with Patten and Fiancee, and Thompson with seedling Rachel Marie Thompson.

The dinner table exhibits were centers of great interest. Samuel Murray won with a graceful centre piece of Madame Chateaufort and Adiantum; Rock was second with the new rose, Mrs. Marshall Field, and Schaeffer Floral Company third, with arrangement of Liberty.

The judges were J. N. May of Summit, N. J., and William J. Stewart, Boston.

THE CHICAGO SHOWS.

This was unquestionably one of the most pretentious exhibitions ever arranged in this country. The huge Coliseum must be seen to comprehend its size and even then one hardly realizes its vastness. In such a place everything is dwarfed and groups that would seem enormous in an ordinary hall are pigmies in the Coliseum. The immense number of plants required for adequately filling this lofty hall were supplied, however, and the space overhead was well cared for by about twenty great masses of pine boughs and pendant asparagus suspended in mid-air. The walls and pillars were lavishly adorned with oak boughs and southern smilax. All around the hall were arranged booths or alcoves about twenty feet wide each. These were framed in oak and southern smilax and each was occupied by a local retail florist there being nineteen in all. In the centre an electric fountain played. At each end of the hall the displays of the nurserymen and the exhibits of model back-yards were located. The remainder of the floor space was occupied by the great groups of decorative foliage plants, chrysanthemum cut blooms and plants, orchids, carnations and roses and a large area was reserved for the table decorations of which there were five. The general effect was grand; the quality of the exhibits throughout was excellent; the attendance was enormous, far exceeding the most sanguine hopes, the receipts from sale of tickets averaging for the five days more than \$2,000 a day.

The most notable departure from the usual character of such exhibitions was the series of floral booths above alluded to. The public crowded around them and wandered among the richly furnished displays of the retailers' handiwork with an interest far exceeding that accorded to any other department of the show. The list of retail florists participating in this unique demonstration included Lubliner & Trinz, Wienhoeber, Bohannon & Canger, Hobbs Co., Sheridan Park Floral Co., Muir, Klunder, A. I. Simmons, Fraufenfelder, A. Lange, Rowe, A. McDams, Friedman,

Mangel, W. J. Smyth, Samuelson, Schiller and Kidwell. As these retailers are all aspirants for the patronage of the best class of the public it will be readily understood that no wilted flowers or untidiness were to be seen in this department, each vying with the other in producing the most pleasing effect with the choicest flowers and the richest accessories. All were good but especially attractive to the feminine eye was the Klunder booth which displayed a bridal table over which hung a white bell with streamers held up by flying cherubs. It was almost impossible to get any where near this display so great was the crowd around it. The retail people also scored a great success with their dinner table decorations, which were changed from day to day and kept always fresh and neat.

Among the groups of decorative plants the most conspicuous was one from the South Park greenhouses. A forest of bamboos 30 to 40 feet high was the centre and huge araucarias and palms completed the arrangement which was the work of the veteran John Thorpe and showed that he had not forgotten his cunning.

A splendid group of palms and noble ornamental foliaged plants in variety was contributed from Lincoln Park conservatories. Mr. Frey, the gardener-in-chief, was also represented by a group of seedling chrysanthemums of the single and pompon type in which were many exquisite little gems. There were large groups of foliage plants from West Parks also.

Local growers almost without exception contributed to the palm groups, the cut flower classes, the chrysanthemum specimen plant classes, etc., and did their full share towards the success of the affair. Wietor Bros.' Beauties were superb. A new rose that attracted much attention and brought out many predictions for future usefulness was shown by the Minneapolis Floral Company under the name of Miss Kate Moulton. Among the carnations Guttman & Weber's Victory, C. W. Ward's Robt. Craig, and Witterstaetter's Aristocrat were especial favorites. Dornier's yellow chrysanthemum, Golden Eagle, scored 96 points. It is a deep, golden yellow incurved. Mayor Weaver, an incurved deep pink from Nathan Smith & Sons, scored 93 points. Dornier's No. 26 ('03), a lemon colored Japanese, made 94 points. H. G. Selfridge, C. H. Gebhardt, gardener, was represented by a group of fine orchids and E. G. Uihlein, H. L. Skjoldager, gardener, by a rich display of orchid blooms.

The Dundee Nurseries, which, by the way, will be changed to Porter's Nurseries on January 1, 1906, made a very extensive display of nursery stock as did also Peterson Nurseries, Glen View Nurseries, Vaughan's Seed Store, Kiehm's Nurseries and George Witbold.

The judges were John T. Temple, Davenport, Ia.; J. F. Cowell, Buffalo, N. Y., and Alois Frey, Chicago.

NEW YORK FLORISTS' CLUB.

The regular monthly meeting of the New York Florist Club was held Monday evening, November 13. After the routine business of the meeting was transacted the remainder of the even-

ing was given up to the entertainment of the ladies, as it was ladies' night. The program, as arranged by the chairman of the entertainment committee, Mr. Nugent, was carried out to the evident satisfaction of all present.

The flowers exhibited were choice, though they were not so numerous as at some previous meetings. The committee of award reported as follows:

From A. Macdonald, Duke estate, Somerville, N. J.—Five vases specimen chrysanthemums, including T. Carrington, Matthew Smith, Guy Hamilton, Brighthurst, Mrs. Swinburne, Geo. Hutton, Dr. Englehard, Mrs. West, Jeanne Nonine, W. R. Church, Mrs. E. Kirkell and four Merza. Awarded a cultural certificate. Louis Dupuy, Whitestone, L. I., one vase each Jeanne Nonine and Bouvardia Humboldtii. Awarded cultural certificate. F. R. Pierson, Tarrytown, N. Y., one vase variegated Enchantress. Cottage gardens, Queens, N. Y., one vase Robert Craig. Alex J. Guttman, 43 West 28th street, one vase Victory. R. C. Pye, Nyack, N. Y., three carnations, Senator Crane. Theo. Hengstenberg, Hempstead, L. I., one vase each carnation seedling No. 3 and No. 5. Anton C. Zvolanek, Bound Brook, N. J., one vase sweet peas.

In the case of the last three mentioned exhibits the committee suspended judgment in the event of the exhibitors desiring the committee to visit and inspect the stock growing in the greenhouse.

The nominating committee presented the following names to be voted on at the December meeting:

For president, John Scott, Charles H. Totty; vice-president, J. H. Pepper, Robert Kuhne; secretary, John Young. S. S. Butterfield; treasurer, Carl S. Weathered, Lyman B. Craw, L. W. Wheeler; trustees, Julius Roehrs, Jr. Robert Simpson, John Birnie, J. K. Allen, C. H. Totty, J. B. Nugent, A. H. Langjahr.

CRIMSON RAMBLERS

A Georgia correspondent has placed the following in my hands for disposal.

Field grown	1 to 2 ft.	Per 100
" "	3 ft.	\$7.00
" "	4 ft.	8.00
" "	5 ft. up	9.00
		11.00

We sold some for same party last year: the stock proved extra fine and gave good satisfaction. I am assured they are equally first class this year.

Also a nice lot of Field grown H. P.'s at \$11.00 per 100, named varieties.

GEORGE C. WATSON

Wholesale Seedsman and
Commission Merchant.

1614 Ludlow St., PHILADELPHIA, PA.

Variegated Lawson Carnation

A PHENOMENAL VARIETY

This beautiful carnation, which we introduced this spring, we are sure will prove not only the best variegated carnation ever sent out, but one of the most popular and profitable carnations in any color that has ever been introduced. The popular conception of a variegated flower ordinarily is that it is not so desirable as a solid color, but Variegated Lawson has proved an exception to the rule, on account of its exceeding beauty and delicacy. In our own retail sales are any index of the popularity of a variety, then Variegated Lawson is bound to be a winner, as the flowers of this sold more readily than those of any other variety.

Aside from its inherent value, it will also be sought for on account of the sensation which it created last season in the newspapers, its merits having been heralded widely in the daily papers all over the country. The variegation is very beautiful—delicate carmine pencilings on ivory-white ground. It has every good quality—beautiful flower, fine stiff stem, and is exceedingly productive. W. N. Craig, who is an authority on everything pertaining to horticulture, says he knows that it will out bloom that popular variety, Mrs. M. A. Patten, three to one. The variegation is very similar, but Variegated Lawson has a much better stem and is much more productive. It has the Lawson habit and stem.

White Lawson, which we introduced last year, has proved to be the best white carnation ever put on the market, and we are satisfied that Variegated Lawson will be grown just as largely. Those who are growing moderate quantities of carnations and are obliged to grow several varieties in a house, will find it decidedly to their advantage to plant the different Lawson sports, as they all require the same treatment, and, consequently, will give the best results. A great many carnations are short-season varieties, but Variegated Lawson, like the rest of the Lawson type, has a long season, as the flowers do well during the late spring and summer, when many varieties cease to be at their best.

Fieldgrown plants from ground,
\$15 00 per 100.

F. R. PIERSON CO.
Tarrytown-on-Hudson, N. Y.

Manetti Rose Stocks

A selected grade for florists' use. Uniform in size. Well rooted. Sample free.

THOMAS PIERMAN & SONS, Inc.
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ABIES ARIZONICA, CACTI.

We have collected this season a limited supply of the following seeds. Kindly send in order before December when we leave for Mexico to collect orchids and cacti. George and M. J. Hochstetter, Collectors at Cerritos, Orchids and Seeds, Flagstaff, Arizona.

Cash with order.	1.00	1 lb.	5.00	10 lbs.	50.00
Abies Arizona.	75c	\$5.00	\$30.00	\$50.00	\$100.00
Pinus flexilis	1.00	1.25	1.50	2.00	2.50
Juniperus Monosperma	1.00	1.25	1.50	2.00	2.50
Pinus hypoleuca	20c	1.00	4.25	8.00	15.00
Scopolium	20c	1.00	4.25	8.00	15.00

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

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Ralph M. Ward & Co.
2 West Broadway, New York.

Lilies, Japanese Plants

BAMBOO STAKES

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31 Barclay Street, New York

HELLER'S
MICE
PROOF
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CASES.

SEND FOR
CIRCULARS
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BOXWOOD SPRAYS

We can supply this article in quantity

DWARF EVERGREENS

for filling window boxes, etc.
Good variety at reasonable prices

CEDAR BARK

In demand for covering window boxes, rustic interiors, etc.

SAMUEL S. PENNOCK,

The Wholesale Florist of
PHILADELPHIA

Store 4th P. M. 1612-1618 Ludlow St.

CLADIOLUS

AUGUSTA AND WHITE AND LIGHT.

Sizes in both varieties runs to given measure below:

I. Size 1 1/2 and up.
II. 1 1/2 and 1 3/4.
III. 1 3/4 and 1 1/2

We guarantee good sunn' bulbs.

Ask for prices. Address all correspondence to
ROWELL & GRANZ, BICKSVILLE, L. I., N. Y.

Bulbs, Palms, Etc.

Amayrillus Bippestum Hybrids, the finest strain grown, enormous, large flowers of splendid colors, mixed showing flowering bulbs, \$4.50 per 12; \$40.00 per 100.

Metrosideros Fleribunda (Hottle Brush) Per 100, extra strong, 3-in. pots, \$2.50 per doz.—\$20.00
Cocos Bonneti and **Cocos Australis**
from 2-in. pots, \$4.50 per doz.—\$40.00

RAMONA NURSERY, SHORR, CAL.

SAN FRANCISCO FLOWER SHOW.

The great combination show of the Pacific Coast Horticultural Society and the California State Floral Society opened in San Francisco last week, and Judges Charles Abraham, proprietor of the Western Nursery; Sidney Clack of Menlo Park, and John McLaren, superintendent of Golden Gate Park, awarded the following prizes:

John H. Sievers & Co., first, for the largest collection of carnations; best 25 carnations; 25 scarlet carnations; specimen decorative plant; second, for collection of decorative plants.

H. Plath, proprietor of the Ferneries, first, for largest collection of decorative plants; collection of ferns; specimen ferns; most artistic hanging basket.

Redwood City Nursery, first, for best 12 white chrysanthemums grown under glass; 12 yellow chrysanthemums; special prize for carnations.

Dernoto Bros., first, for 12 pink chrysanthemums; yellow chrysanthemums; largest collection of chrysanthemums grown under glass; largest single chrysanthemum; special, for decorative flowering plants.

Scheverin Bros., first, for roses grown under glass; second for carnations under glass.

J. W. Bagge, head gardener for the Crocker estate, first, for largest collection of coleus.

Cox Seed Co. received a prize for decorative plants.

In the class devoted to amateurs who employ skilled labor, James L. Flood, Hector Maclean, chief gardener, took the majority of the prizes for chrysanthemums, roses and carnations; W. H. Crocker, W. Eldred, gardener, took first for dahlias; W. S. Tevis, H. Maters, gardener, first for collection of Rex Begonias.

The next annual meeting of the Vermont State Horticultural Society will be held in Burlington Dec. 13 and 14.

VICTORY

THE BEST SCARLET CARNATION

ST. LOUIS FLOWER SHOW.

The flower show under the auspices of the Florists' Club closed on the evening of the 11th, and the committee who have labored so diligently must feel gratified with the success achieved and the fine exhibits brought together. The adaptability of Westminster Hall as a setting for the array of plants and cut blooms, making the customary drapings of Southern smilax unnecessary, was a matter of much favorable comment. Coming at the same time as the Chicago show the exhibits were naturally divided in some cases, while some exhibitors of former years were noticeably absent. The names most frequently mentioned in the long list of prize-winners are Fred C. Weber, William Schray & Sons, Koenig Floral Co., W. J. & M. S. Vesey, The E. G. Hill Co., Vaughan's Seed Store, F. H. Fillmore & Son and F. H. Meinhardt.

CINCINNATI FLORISTS' CLUB.

The chrysanthemum show which was held at the Jabez Elliot Market house November 11, and which has always been a phenomenal success, was far below former shows, both in quantity and quality. It was rather discouraging to see upon entering the exhibition room so much unoccupied space and so few exhibitors. The exhibitors were E. Witterstaetter of Cincinnati, George Bayer of Toledo, H. Schmidt of Oxford, George & Allen of Cincinnati. R. Witterstaetter exhibited some of his new seedling carnations and they were very much admired.

KENTUCKY SOCIETY OF FLORISTS.

The Louisville show is over, and was a most satisfactory exhibition, nothing being short but the public. Guttman & Weber won the silver medal on their new carnation Victory, which won general admiration. Robert Craig and Candace were awarded certificates of merit. Nearly all the classes were well filled, and competition was decidedly warm.

THE GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The next regular meeting of the club will be held at Horticultural Hall on Tuesday evening, Nov. 21, at 8 o'clock. Prof. B. M. Watson of the Russey Institution, will lecture on "Botany for Young Gardeners." The annual election of officers will take place at the coming meeting.

Cold Frame Mats

Made of rye straw, cover two frames, \$1.50.
Made of hurlup lined with wool, \$1.50.

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10-12 inch diam.....	\$ 4.50	\$35.00
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14-16 inch diam.....	7.50	55.00
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Order now before cold weather sets in.

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THE CHRYSANTHEMUM

Its Culture for Professional Growers and Amateurs

By Arthur Herrington

The most complete and comprehensive work on the cultivation of the chrysanthemum that has yet been published in America. Its scope and character may be gleaned from a list of contents, which comprises chapters on culture for exhibition; composite; planting; benches, boxes or pots; general culture; details: crown and terminal buds, feeding, its degree, and application; care of the buds; exhibition; and judging; specimen plants; chrysanthemum plants in six-inch pots; commercial culture, raising from seed and hybridizing; sports; hardy chrysanthemum; chrysanthemums for south and west; chrysanthemums in Australia; insect pests and diseases; classification and selection of varieties for special purposes; and history of the chrysanthemum. The book will be welcomed both by the professional and amateur growers of chrysanthemums, for the lucid, comprehensive as well as the practical character of its contents, which, if strictly followed, cannot fail to bring about the desired results, namely, the obtaining of large chrysanthemum flowers in the greenhouse, and a profusion of bloom in the garden. Handsomely illustrated. 106 pages. 5x7 inches. Price, 50c.

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Valley Violets and all Cut Flowers

WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Nov. 14	ST. LOUIS Nov. 15	PHILA. Nov. 15	BOSTON Nov. 17
ROSES				
Am. Beauty and Edgely Fan, & Sp.	25.00 to 35.00	20.00 to 25.00	20.00 to 25.00	15.00 to 25.00
" Extra.....	15.00 to 20.00	12.50 to 15.00	15.00 to 20.00	10.00 to 12.00
" No. 1.....	8.00 to 12.00	8.00 to 10.00	10.00 to 12.00	6.00 to 8.00
" Lower grades.....	2.00 to 5.00	3.00 to 5.00	3.00 to 5.00	2.00 to 4.00
Bride & 'Maid—Fan, & Sp.....	8.00 to 12.00	4.00 to 5.00	5.00 to 8.00	6.00 to 8.00
" Extra.....	6.00 to 8.00	3.00 to 5.00	5.00 to 6.00	4.00 to 6.00
" No. 1 and Lower grades.....	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00
Liberty, Fancy & Special.....	8.00 to 12.00	4.00 to 6.00	8.00 to 10.00	6.00 to 8.00
" Ordinary.....	4.00 to 6.00	3.00 to 5.00	5.00 to 6.00	4.00 to 6.00
Carnot and Kaiser's Fancy.....	8.00 to 10.00	5.00 to 6.00	8.00 to 10.00	6.00 to 8.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Golden Gate, Chateaux, Fancy.....	10.00 to 12.00	6.00 to 8.00	10.00 to 12.00	8.00 to 10.00
" Ordinary.....	2.00 to 4.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
CARNATIONS				
Fancy Class.....	4.00 to 6.00	2.50 to 3.00	2.50 to 3.00	2.00 to 2.50
General Class and Lower grades.....	2.00 to 3.00	1.50 to 2.00	1.50 to 2.00	1.00 to 1.50
MISCELLANEOUS				
Cattleyas.....	35.00 to 50.00	30.00 to 40.00	40.00 to 50.00	30.00 to 40.00
Lily of the Valley.....	3.00 to 4.00	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00
Chrysanthemums.....	10.00 to 30.00	3.00 to 10.00	5.00 to 15.00	4.00 to 12.00
Violets.....	50 to 1.25	35 to 1.00	25 to .75	35 to .60
Adiantum Cuneatum.....	50 to .75	75 to 1.00	1.00 to 1.50	50 to 1.00
" Cloweanum.....	50 to .75	75 to 1.00	1.00 to 1.50	50 to 1.00
Smilax.....	10.00 to 15.00	12.50 to 15.00	15.00 to 20.00	10.00 to 12.00
Asparagus Plumosa, strings.....	25.00 to 30.00	25.00 to 30.00	30.00 to 35.00	25.00 to 30.00
" Sprenger, bunches.....	15.00 to 25.00	25.00 to 30.00	30.00 to 35.00	20.00 to 30.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty.....

WHOLESALE
GROWER of

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MUMS, BEAUTIES, VALLEY

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TO BUYERS

Patronize our Advertisers, they will treat you right

VICTORY

THE BEST SCARLET CARNATION

Flower Market Reports.

BOSTON The condition in the market the past week has been dull, but with the approach of Thanksgiving business is expected to improve. Chrysanthemums are still abundant, and the quality still holds good. Roses of all kinds are plentiful, the demand being fair. Carnations are also to be had in large quantities and the stock is excellent.

The past week was a quiet one; bad weather may be the cause. Flowers of all kinds may be had at reasonable figures, but a scarcity still exists on select roses and carnations. Chrysanthemums of certain kinds and quality were somewhat of a glut and had to move at very low prices. The large varieties, such as Appleton, Maud Dean, Mrs. Weeks, Enguehard and Bonnafon, are coming in fast and fine quality. Prices run from \$8 to \$20 per hundred. Fancy carnations are somewhat scarce, and are snapped up quickly at \$2 to \$4 per hundred. Beauties are not abundant and sell out clean; also violets and lily of the valley. Green goods are selling fairly well.

LOUISVILLE Business conditions the previous week varied a great deal; a few were rushed and a few had nearly nothing to do. Carnations of any value are somewhat short, with the demand unabated. Good roses can be had in satisfactory quantities. Chrysanthemums continue in good demand, and are of good quality. Violets sell up to expectations.

MINNEAPOLIS AND ST. PAUL The cold weather is booming the flower business, and the florists feel that the winter season has opened in earnest. Weddings, parties, banquets and the like are taking up the time and attention of the decorators, and the greenhouse men are hurrying the roses and chrysanthemums along, to get out of the way of the spring stock. Min-

Wild Smilax and Plumosa

W. E. McKISSICK
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1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN
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EDWARD REID, Wholesale Florist
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FANCY OR DAGGER FERN No. 1 STOCK,
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GALAX, Brilliant bronze or green
75c per 1000

Use our laurel festooning for your decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily, gathered fresh from the woods. Hand made, full sizes, 4c, 5c and 6c per yard. Once used, always used. Branch Laurel, 35c per large bundle, Princess 1 line by the pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

nesota is notably a healthful state, and this fact has been greatly emphasized of late by the very perceptible lack of demand for funeral designs. Carnations and violets are scarce; roses and chrysanthemums are plentiful and in good condition.

NEW YORK The absence of activity in the cut flower market continues. All grades and varieties are in ample supply. Chrysanthemums are at their height and hold the boards. Pink is not so popular as white and yellow. There is a wide range in prices from \$3 to \$35 per hundred, but there are few of the latter. The rose crop seems to be coming along, and, unfortunately, the present demand is light and low prices rule generally. American Beauties are also plentiful and good, but these await the passing of the "mum" for their inning. Carnations seem more plentiful than they have been, but hold up fairly in price; of course, the quality improves daily. Orchids alone are in light supply, and command maximum prices, cattleyas bringing from 50 to 75 cents.

It looks as though there might be more violets in the market in a short time. They have been selling at prices that compare favorably with last year, with all the increase in glass this last summer.

The general tendency of prices on all roses is downward at present writing.

PHILADELPHIA An election, a flower show, and a big football match made a fierce excitement in Philadelphia last week and brought lots of out-of-town visitors, but the effect on the cut flower trade did not seem to be particularly noticeable. Chrysanthemums are at their best and large quantities of them are being used with prices in favor of the buyer. Roses also are very good and very plentiful. White carnations dragged some, but there was a brisk demand for colors. Sweet peas and niggonette are now coming in in moderate quantity, and meet with good demand. Violets are improving in quality right along. The white variety is in moderate supply and takes very well. Other staples normal.

HORTICULTURE COVERS THE COUNTRY.

Inglewood, Cal., Nov. 4, 1905.
S. S. Skidelsky, 824 North 24th St., Philadelphia:

Dear Sir:—I noticed your advertisement in HORTICULTURE. Would like to get your trade prices on ferns as soon as possible.

Respectfully yours,
INGLEWOOD NURSERIES.
R. H. Thompson, Supt.

W. E. Fryor of Mantorville, Minn., writes that "six rows of blackberries 18 rods long and four of them planted only the year before produced last year 1450 quarts. This season the same rows produced 1800 quarts."—Minnesota Horticulturist.

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Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Plants.

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New crop now hardy in limited quantities.
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Roses					Carnations				
Am. Beauty, fan and sp.....	22.00	to 25.00	10.00	to 20.00	Fancy Class.....	2.00	to 3.00	2.00	to 3.00
" extra.....	12.00	to 15.00	5.00	to 1.00	General Class and lower grades.....	1.00	to 1.50	1.00	to 1.50
" No. 1.....	8.00	to 10.00	5.00	to 8.00	Cattleyas.....	5.00	to 60.00	50.00	to 75.00
" Lower grades.....	2.50	to 5.00	.50	to 2.00	Lily of the Valley.....	3.00	to 4.00	2.00	to 3.00
Bride & "Maid, fan and sp.....	6.00	to 8.00	4.00	to 6.00	Chrysanthemums.....	2.00	to 4.00	3.00	to 25.00
" extra.....	4.00	to 5.00	2.00	to 4.00	Ocimum.....	2.00	to 3.00	2.00	to 3.00
" No. 1.....	1.50	to 3.00	.50	to 1.00	Lilies.....	6.00	to 10.00	6.00	to 10.00
" Lower grades.....	1.00	to 1.50	.50	to 1.00	Violets.....	1.00	to 4.00	.75	to 1.25
Liberty.....	1.00	to 1.50	.50	to 1.00	Adiantum Cuneatum.....	.50	to 1.00	.50	to .75
Carnot and Kaiserin, fancy.....	1.00	to 1.50	.50	to 1.00	" Crowneum.....	.50	to 1.25	1.00	to 1.25
" Ordinary.....	1.00	to 2.00	1.00	to 2.00	Smilax.....	0.00	to 12.00	0.00	to 10.00
Golden Gate, Chateaux, fancy.....	0.50	to 6.00	0.00	to 8.00	Asparagus Plumosus, string.....	20.00	to 25.00	20.00	to 25.00
" Ordinary.....	1.00	to 2.00	1.00	to 2.00	Asparagus, bunches.....	10.00	to 20.00	10.00	to 25.00

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Wholesale FLORIST

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.
Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.

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Furnish best stock at fair prices all the year round. Send for quotations on fall orders

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Taking Orders for Flowers to be Deliv-
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York can have them delivered in PLAIN
BOXES, WITH OWN TAGS in best
manner by

Young & Nugent

42 W. 28th St., New York

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Fancy Ferns

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

90 Cents per 1000
Discount on Regular Shipments
WM. DILGER
Manager

Charles Millang

50 West 29th St., New York City

Cut Flowers on Commission

A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

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WM. STUART ALLEN CO.

Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

J. B. Murdoch & Co.

Wholesale Florists

FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance Phone 1435 Court.

Bonnot Bros.

Wholesale Florists

55 and 57 W. 26th St., NEW YORK
Cut Flower Exchange Tel. 830 Madison Square
OPEN 6.00 A.M.
AN UNEQUALLED OUTLET FOR CONIGNED FLOWERS

JULIUS LANG Wholesale Florist

Consignments received, sold well
and returns made promptly.
53 WEST 30th ST., NEW YORK
Telephone, 280 Madison Sq.

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Wanted—A few more reliable growers of
Carnations and Violets. Quick returns and
highest prices.

Chrysanthemums, Carnations

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In writing advertisers, mention Horticulture

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All Choice Cut Flowers in Season
ALFRED H. LANGJAHR
55 West 28th St., New York
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KINDLY MENTION HORTICULTURE

Cut Flowers

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ALL VARIETIES
SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

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Headquarters in Western New York for

Roses

Carnations

And all kinds of Seasonable Flowers

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Give us a Trial We can please you

DACGER AND FANCY FERNS

\$1.00 per 1000

Discount on large orders

NEW CROP SOUTHERN WILD SMILAX

\$3.50 and 7.00 per Case

GALAX, New crop. Green \$1.00; bronze \$1.50 per 1000

Headquarters for all FLORISTS' SUPPLIES, Wire
Designs, Cut Wire, Letters, Immaculatas, Cynas Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

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L. D. Telephone, Main 2618.



PHIL. F. KESSLER

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Wholesale — Commission
Correspondence Solicited

57 West 26th Street, NEW YORK

Tel. 9221 Madison Square

Want Violets?

I HAVE THE BEST IN NEW YORK.

Regular shipments a specialty

Write for quotations

GEORGE SALTFOUR

46 W. 29th Street, New York

Tel. 393 Madison Sq.

WHOLESALE FLOWER MARKETS, TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI Nov. 14	DETROIT Nov. 15	BUFFALO Nov. 15	PITTSBURG Nov. 14
ROSES				
Am. Beauty, fan, and spec.	20.00 to 25.00	to 40.00	20.00 to 25.00	25.00 to 35.00
extra	12.50 to 15.00	to 24.00	12.00 to 20.00	15.00 to 20.00
" No. 1	8.00 to 10.00	15.00 to 25.00	6.00 to 12.00	8.00 to 10.00
" Lower grades	to 6.00	8.00 to 12.00	3.00 to 6.00	4.00 to 5.00
Bride and Maid, fan, and spec.	5.00 to 6.00	8.00 to 10.00	7.00 to 8.00	8.00 to 10.00
" extra	3.00 to 4.00	4.00 to 5.00	5.00 to 6.00	5.00 to 6.00
" No. 1 and Lower gr.	2.00 to 3.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Liberty, fan, and spec.	to 4.00	4.00 to 5.00	5.00 to 6.00	4.00 to 5.00
" Ordinary	to 3.00	3.00 to 4.00	4.00 to 5.00	3.00 to 4.00
Carnot and Kaiser, Fancy	5.00 to 6.00	to 8.00	6.00 to 8.00	4.00 to 5.00
" Ordinary	3.00 to 4.00	4.00 to 5.00	5.00 to 6.00	3.00 to 4.00
Golden Gate, Chateauf, Fancy	2.00 to 3.00	4.00 to 5.00	4.00 to 5.00	3.00 to 4.00
" Ordinary	to 2.00	to 3.00	to 4.00	to 5.00
CARNATIONS				
Fancy Class	3.00 to 4.00	to 5.00	2.50 to 3.00	2.50 to 3.00
General Class	1.50 to 2.00	to 2.00	1.00 to 1.50	1.50 to 2.00
MISCELLANEOUS				
Cattleya	to 5.00	4.00 to 5.00	4.00 to 5.00	to 5.00
Lily of the Valley	to 4.00	3.00 to 4.00	3.00 to 4.00	to 4.00
Violets	to 75	to 75	to 1.00	1.25 to 1.50
Liberty	12.00 to 15.00	to 15.00	to 20.00	to 25.00
Chrysanthemums	4.00 to 5.00	5.00 to 6.00	15.00 to 20.00	4.00 to 5.00
Adiantum, Cuneat	to 1.00	to 2.00	5.00 to 6.00	75 to 1.00
Crocus	to 1.00	to 1.00	1.25 to 1.50	to 1.25
Smilax	12.50 to 15.00	to 15.00	12.00 to 15.00	12.50 to 15.00
Asparagus Plumosus, strings	to 50.00	to 50.00	40.00 to 50.00	30.00 to 50.00
Sprengeri, bunches	25.00 to 35.00	25.00 to 40.00	25.00 to 50.00	20.00 to 30.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - - BOSTON

List of Advertisers

Page	Page
Allen Wm. Stuart Co. 539	McConnell Alex. 535
Aschmann Godfrey. 524	McGorman R. T. 535
Baker Wm. J. 530	McKellar Charles W. 536
Bambrick, Thos. H. 542	McKissick, W. E. 537
Barrows H. H. & Son. 544	McManus Jas. 538
Bayersdorfer H. & Co. 535	Metropolitan Material Co. 543
Beaven, E. A. 537	Michell, F. C. 536
Black, Chas. 532	Michigan Cut Flower Exchange 539
Blackstone Z. D. 535	Miller, O. A. 539
Robbuck & Atkins 534	Milling Charles 539
Boar & W. J. & Co. 537	Milling Frank 538
Boddington A. T. 536	Minger J. C. 543
Bonnot Bros. 537	Mr. Hosarik, Nurseries 532
Boston Florist Letter Co. 535	Murdoch J. B. 539
Breck Joseph & Sons 526	Niessen Leo. Co. 536
Bretmeyer's J. S. 535	Peacock L. K. 532
Budlong J. A. 536	Pennock Samuels 535
Burnham Hitchings Pierson Co. 544	Perkas, John I. 539
Parpee W. A. & Co. 526	Philippine Flower Co. 539
Chicago House Wrecking Co. 543	Pierce F. O. Co. 543
Chicago Carnation Co. 523	Pierson F. R. Co. 533
Cochran Mushroom & Spaw Co. 534	Pittsburg Cut Flower Co. 539
Coles, W. W. 524	Pye R. C. 541
Cooke G. H. 515	Ramona Nursery 533
Cottage Gardens 522	Raynor John L. 538
Crowl Fern Co. 537	Reed & Keller 535
Dulger Wm. 539	Reed Edw. 537
Dummock A. 524	Reinberg Peter 536
Deer H. A. 522-524-543	Robinson H. M. & Co. 539
Dysart R. J. 541	Rosch, John 539
Elliott Wm. & Son. 534	Rolker August & Son 522
Eiler J. G. 534	Rowell & Grange 534
Ernest, W. H. 541	Saltford, Geo. 530
Farguhar R. & J. & Co. 526	Sanner & Son 534
Fletcher F. W. 524	Schilio Lumber Co. 534
Ford Bros. 537	Schmidt J. C. Co. 524
Forest Nursery 537	Se Ray John A. 541
Seed Co. 522	Scott John 534
Froment H. R. 538	Shrop, Partridge & Co. 544
Fromow W. & Sons. 522	Sheridan W. F. 538
Grey T. J. & Co. 536	Sievers J. H. & Co. 523
Gude A. & Bro. 535	Singers E. G. 543
Gurney Heater Mfg. Co. 543	Situations & Wants 542
Guttman Alex. J. 543	Skidelsky S. S. 524
525-514-57-538-542	Steans A. T. Lumber Co. 543
Hall Asso. 522	Stevens A. G. 523
Hammond Paint & Slag Shot Works 526	Sutherland Geo. A. 539
Heller & Co. 533	Suzuki & Iida 539
Hews A. H. & Co. 543	Thompson J. D. Co. 523
Hippard Edwards 543	Thornon Walter 543
Hocke Her G. & M. 533	Thornburn J. M. & Co. 526-526
Holly Castle Co. 544	Thornon Bros. 544
Horan E. C. 538	Treadwell & Schenck 528
Horticulture Pub Co. 535	Troy, J. H. 522
Hunt E. H. 536	Vaughan's Seed Stores 522
Iose Bros. 523	Vaughan and Sperry 536
James Hiram T. 522	Walsh M. H. 522
Kasting W. F. 539	Ward Rap M. Co. 523
Kervan Co., The 537	Webster G. C. 519-514
Kessler, J. F. 539	Weber C. 523
King Cons. Co. 543	Weber K. 535
Kloeker A. 541	Weber H. & Sons 523
Koral Mfg. Co. 535	Weich Bros. 536
Kronin, Jr. E. N. 543	Weiland & Rusch 536
Lager & Hurrell. 535	Wietor Bros. 526
Lang Julius 539	Winterson E. F. 546
Langiar, Alfred H. 530	You 2 John 522
Leuthy A. & Co. 524	Young & Nugent 538
McCarthy N. F. & Co. 539	Young Thos. Jr. 535

Buyer's Directory and Ready Reference Guide

READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston. For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 52 S. Market St., Boston. For page see List of Advertisers.

Joseph Breck & Sons, 51 and 52 N. Market St., Boston. For page see List of Advertisers.

ARACARIAS.

H. A. Dreer, Philadelphia. For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York. For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York. Bermuda Harrisill Bulbs. For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston. French and Dutch Bulbs. For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston. Bermuda Grown Harrisill and Freesias.

R. & J. Farguhar & Co., Boston. Catalogue of Holland Bulbs and Roots. For page see List of Advertisers.

J. M. Thornburn & Co., 36 Cortlandt St., New York. For page see List of Advertisers. Suzuki & Iida, 31 Barclay St., New York. For page see List of Advertisers.

H. F. Michell & Co., Philadelphia, Pa. For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J. For page see List of Advertisers.

CALLAS.

H. F. Michell & Co., Philadelphia, Pa. For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal. Hannah Hobart. For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y. For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md. For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y. Carnation, Variegated Lawson. For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill. For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass. Rooted Cuttings Variegated Lawson. For page see List of Advertisers.

Cottage Gardens Co., Queens, N. Y. Carnation Robert C. Pye. For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y. Carnation Variety. For page see List of Advertisers.

E. N. Kroninger, Allentown, Pa. For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y. For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York. For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thornburn & Co., 36 Cortlandt St., New York. For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass. For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defance, O. For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Atco, N. J. For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Aburndale, Mass. For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston. For page see List of Advertisers.

EVERGREENS.

Hiram T. Jones, Elizabeth, N. J. For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass. For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass. Nephrolepis Barrowsii. For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia. For page see List of Advertisers.

W. W. Coles, Kokomo, Ind. Boston Ferns. For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Proville St., Boston. For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa. For page see List of Advertisers.

The Keran Co., 20 W. 27th St., N. Y. Decorative Evergreens. For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston. For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York. For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa. For page see List of Advertisers.

S. S. Pennock, Philadelphia. For page see List of Advertisers.

J. Stern & Co., 1925 Germantown Ave., Philadelphia. For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston. For page see List of Advertisers.

Koral Mfg. Co., 23 Hawley St., Boston. For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston. For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York. For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo. For page see List of Advertisers.

Young & Nugent, New York. For page see List of Advertisers.

J. Bretmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich. For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York. For page see List of Advertisers.

You Need Not Go Outside

THE PAGES OF

HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and Supplies in the Country.

FLOWERS BY TELEGRAPH. (Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 25th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hewes & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

H. F. Mitchell & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago, Ill.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.

For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Dilger, Mgt.
Faucy Ferns.

For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Plerson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.

Plants tender or hardy.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MASTICA.

F. O. Pierce Co., New York, N. Y.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heiler & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICO-FUME.

Kentucky Tobacco Product Co.,
Louisville, Ky.

NICOTIANA SANDERAE.

Sander & Sons, St. Albans, Eng.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.

O. A. Miller, 48 Watson Ave.,
E. Orange, N. J.
For page see List of Advertisers.

PAEONIES.

Gilbert H. Wild, Sarcoxie, Mo.
For page see List of Advertisers.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

E. G. Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Fancies, Daisies, Forget-Me-Nots, Geraniums.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

P. J. Berckmans Co., Fruitland Nurseries,
Augusta, Ga.
For page see List of Advertisers.

Bobbluk & Atkins, Rutherford, N. J.
Azalea Indica, Kentias, Baya.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
Boxwood Sprays, Dwarf Evergreens, Cedar
Bark.
For page see List of Advertisers.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publishing
Co., Boston.
For page see List of Advertisers.

The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McCConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

RETAIL FLORISTS.

(Continued.)

J. Brettmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

Z. D. Blackstone, 14 & 11 S. Sts., Wash-
ton, D. C.

For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.

For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.

August Rolker & Sons, 31 Barclay St.,
New York.

English-Grown Roses.
For page see List of Advertisers.

E. A. Butler & Son, Niagara Falls, N. Y.
Begonia Gloire De Lorraine.

Hiram T. Jones, Elizabeth, N. J.
Crimson Rambler.

For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.

G. C. Watson, Philadelphia.
Crimson Ramblers.

For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.

Cyclamen Seed.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.

For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.

For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.

Forest Tree and Shrub Co.,
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany.
Cat. 1898. High Grade Vines, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.

For page see List of Advertisers.

E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

STEAM TRAP.

E. Hppard, Youngstown, O.
For page see List of Advertisers.

TREES.

Elizabeth Nursery Co., Elizabeth, N. J.

VENTILATING APPARATUS.

Burnham Hitchings Plerson Co.,
1133 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter,
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 383-87 Elliott St., Buf-
falo, N. Y.

VICTORY

THE BEST SCARLET CARNATION

WHOLESALE FLORISTS.

(Continued.)

Chicago.

For page see List of Advertisers.
J. A. Budouge, 37 Randolph St., Chicago.
E. H. Hunt, 70-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Kisch, 59 Wabash Ave., Chicago.
Victor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
E. F. Wintersoon Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 123 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Av. Wm. Elger, mgr.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 53 West 28th St., New York.
Philip F. Keeler, 55 W. 26th St., New York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 49 W. 28th St., New York.
George Safford, 46 W. 28th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Scheuck, 44 W. 28th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Innount & Co., Philadelphia.
W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Nielsen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

ABIES ARIZONICAO CACTI.

G. A. M. Hohlmeier, Pfaffstadt, Ariz.
For page see List of Advertisers.

BULBS, PALMS.

Ramona Nurseries, Shorb, Calif.
For page see List of Advertisers.

CHRYSAETHUM PLANTS.

R. T. McGorman, Natick, Mass.
For page see List of Advertisers.

GLADIOLUS.

Bowdell & Graze, Hockley, L. I., N. Y.
For page see List of Advertisers.

MANETTI ROSE STOCK.

Thos. Mehan & Sons, Dresherstown, Pa.
Box C
For page see List of Advertisers.

RECEIVER'S AUCTION SALE.

Robt. H. Burns, 33 State St., Boston.
For page see List of Advertisers.

OBITUARY.

Denys Zirngiebel.

Denys Zirngiebel, whose serious illness was mentioned in our last issue, died at his home in Needham, Mass., Thursday, November 16. Although 76 years of age, Mr. Zirngiebel had continued in active business, maintaining rare good health and spirits up to the day of his sudden attack. He was a native of Neuchatel, Switzerland. He had the advantage of a good education, and while a young man took a course in botany under Prof. Louis Agassiz, who at



that time had charge of the Botanical Gardens at that place. Mr. Zirngiebel first established himself in business at Berne, but his property having been taken by the railroad he left there and came to America, where his first position was in New Orleans in the management of a plantation. In a short time he was called to Cambridge, Mass., to take charge of the Botanical Garden of Harvard College, but the position not being yet ready for him he was employed for one year at Hovey's nurseries, after which he assumed his duties at the Botanical Garden under Prof. Asa Gray and remained there for fifteen years. Here he renewed his friendship with his old instructor, Prof. Agassiz. In 1865 he left land at Needham, Mass., the following year erected green-houses, and has conducted a prosperous business at that place ever since, being assisted in later years by his son Augustus.

Mr. Zirngiebel is reputed to have been the first to bring to this country plants of the French perpetual carnation, from which sprung the American type of florists' carnation. He was an im-

timate friend and correspondent of Allegatiave, the noted French carnationist. The original plant of *Ampelopsis Veitchii*, now an enormous specimen, was planted by Mr. Zirngiebel at Hollis Hall, Harvard College. He always took great interest in the subject of hot water heating, and introduced that method in the Botanical green-houses in place of the hot-air flues previously used. A simple coil boiler of his construction attained considerable popularity for a period of years, and this type of boiler is still used exclusively at his establishment.

Denys Zirngiebel was a man of rare kindness, conciliatory and generous in disposition, and enjoyed the esteem and affection of his brother florists in the highest degree. He was ever ready to lend a hand, advise and assist those needing friendly help. He became a member of the Society of American Florists in the first year of its existence and continued until advancing years prevented his attendance at the conventions. Of him it can truthfully be said, "None knew him but to love him."

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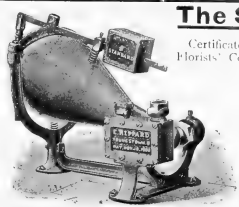
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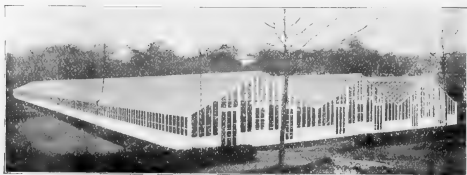
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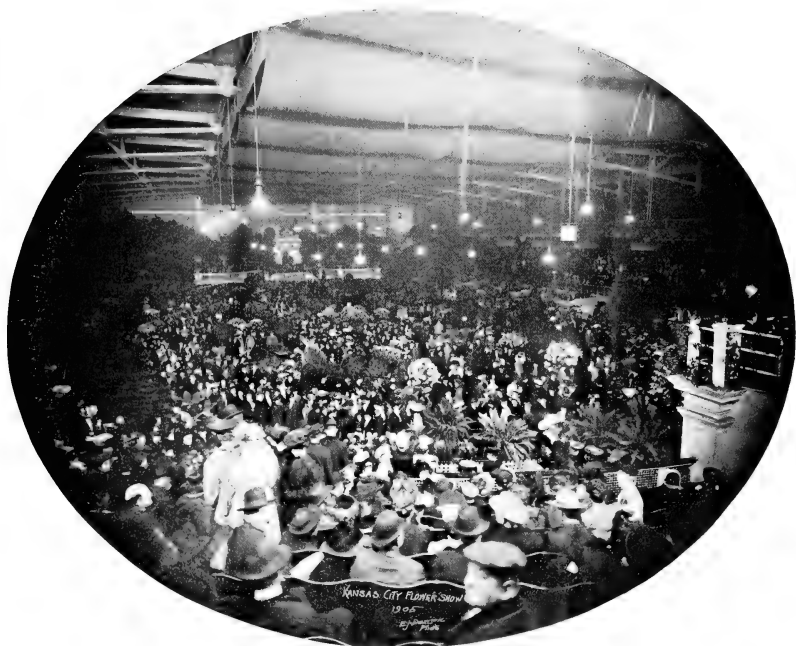
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HORTICULTURE

Vol. II.

NOVEMBER 25, 1905

No. 22



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HORTICULTURE

VOL II

NOVEMBER 25, 1905

NO. 22

PUBLISHED WEEKLY BY

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11 Hamilton Place, Boston, Mass.

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPIECE—Kansas City Flower Show.		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
A FOREST RESERVE FOR NEW ENGLAND— Allen Chamberlain—Illustrated	551	Florists' and Gardeners' Club of Rhode Island...	555
AMERICAN CHRYSANTHEMUMS IN PARIS—C. H. P.	552	Newport Horticultural Society.....	555
THE AUSTRALIAN AND OTHER NEW CHRYSAN- THEMUMS—Arthur Herrington.	552	Massachusetts Horticultural Society.....	555
CHRYSANTHEMUM MME. MARIE LIGER—C. H. P.	552	Chrysanthemum Society of America.....	556
THE KANSAS CITY SHOW—Illustrated.....	553	Philadelphia Show Aftermath.....	556
A FEATURE OF THE CHICAGO SHOW—Illustration	553	Indiana Festival Association.....	556
EDITORIAL	554	St. Louis Flower Show—Illustrated.....	556
NEWS OF THE CLUBS AND SOCIETIES		Elberon Horticultural Society.....	556
Gardeners' and Florists' Club of Boston.....	555	American Chrysanthemum Society.....	556
Ontario Horticultural Exhibition.....	555	PHILADELPHIA NOTES	557
New Haven County Horticultural Society—Illus- trated	555	CUT FLOWER MARKET REPORTS	
		Boston, Buffalo, Chicago, Louisville, Newport, New York, Philadelphia, Twin Cities.....	561
		OBITUARY	566
		SEED TRADE.....	566
		NEWS NOTES.....	566

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PROOF
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A Forest Reserve for New England



PRIMEVAL SPRUCE AND HARDWOOD FOREST, MT. ADAMS.
Typical White Mountain Forest Before Lumbering.

During the last session of Congress a bill was introduced in the Senate calling for the establishment of a federal forest reserve in the White Mountains of New Hampshire. By the terms of the bill the total extent of the reserve was not to exceed one million acres, and the cost was not to exceed five million dollars. The bill received the endorsement of the Congressional committee on forest reservations, but it failed to receive the attention of the Congress as a whole before adjournment. At the coming session it will be reintroduced and pushed, and every citizen of New England who has any interest in the welfare of this section of our country should lend his strength in the pushing.

A similar measure is also pending calling for a reservation in the Southern Appalachian Mountains, and both bills, by agreement of the men in charge of each, will be advanced together as a common cause.

To those who understand the relation of plant life, and especially of woody plant life, to soil and water, as the readers of this paper do understand it, it is unnecessary to argue the need for this reserve. It is sufficient for them to know that four of the principal mill streams of New England derive their headwaters or primary tributaries from those mountains, and to state that the records of stream-flow, kept by the engineers of those mills for a number of years, show increased freshet force each spring, and greater summer shortages of water, and that these

changes have been coincident with the destructive logging operations in the mountains. The rivers thus affected are the Saco and the Androscoggin, which flow through New Hampshire and Maine; the Merrimac, which turns spindles in New Hampshire and Massachusetts, and the Connecticut. Thus all the New England States except Rhode Island are interested in the water conserving powers of those mountains.

Our two illustrations show the "before and after" of destructive lumbering in the White Mountains. The

"after" is "a hopeless case" in this instance. It shows a typical steep mountain slope on which originally stood a fine spruce forest, the home of many a fine and steady spring of purest water. It was lumbered in the ordinary way, everything marketable being cut, and the land left littered with slash. Fire followed the loggers, as it, unhappily, very often does, and as a result the remaining small growth, and even the vegetable soil, or duff, was wholly burned out. The following season's rains and melting snows continued the devastating work, washing down into the valley the last particle of loose mineral soil, and frost and water are still carrying on the work, sending tons of avalanche tearing down the steep slopes each spring and burying the soil of the lower levels far out of sight. Soil, trees and springs have disappeared forever.

This case is not an exception. It is the usual result of logging the steep upper slopes of those mountains, and leaving the slash to



RESULT OF AVERAGE LOGGING AND FIRE ON
STEEP SLOPES.

S. H. EMMETT, BURNED AND WASHED AWAY.

invite fire. They never should be logged at all, but no one save the government can afford to hold them in forest for the sake of the water they conserve.

New Hampshire could not be expected to do it for the benefit of New England, even if she were a wealthy State. New England as a whole cannot do it. The federal government alone can handle the matter economically through its admirable forest service of the Department of Agriculture.

The other illustration shows a typical White Mountain virgin forest of spruce and hardwood. It was thus that those mountain forests appeared before the lumberman began. Today this tract on the Randolph side of the Presidential range, and another small piece on the easterly side of Mt. Washington, are all that remain of those primeval woods. Even at this very minute the axes and saws of the loggers are eating into those Randolph trees.

The bill calls for a reserve not exceeding one million acres in area. The recent survey of the mountain region by the federal foresters shows that the White Mountain country comprises only about 800,000 acres. To establish a forest reserve there would mean increasing the present federal reserve area of the country by only about one per cent. The reserve at present in existence (exclusive of those in Porto Rico and Alaska) amount to ninety-one million acres, and are all situated in the States and Territories west of the Mississippi. The western country has in addition a large number of vast and superb national parks, pleasure grounds pure and simple. New England asks simply that a paltry million acres of mountain country be taken by the nation for a national park and forest reserve in one, and at a cost not greater than is laid out in a single battleship.

That the project is not a sentimental one purely is sufficiently proved by the fact that many prominent business men's organizations have already petitioned Congress to take favorable action. Among these are the American Paper and Pulp Association, the National Wholesale Lumber Dealers' Association, the National Board of Trade, the Connecticut State Lumber Dealers' Association, Rhode Island State Lumber Dealers' Association, New Hampshire Lumbermen's Association, New Haven and Coastwise Lumber Dealers' Association, the Boston Merchants' Association, the Boston Lumber Trade Club, and the Boston Associated Board of Trade.

No stone must be left unturned in the work for this measure before the incoming Congress. Everyone who has an interest in New England should do his part toward securing favorable action. Here is an opportunity for the florists, the nurserymen and the landscape gardeners, individually and as organizations, to promptly urge the matter upon Congress.

Allen Chamberlain.

American Chrysanthemums in Paris

There are not nowadays many of the American seedlings left on this side of the Atlantic, but having half an hour to spare one day when at the recent Paris chrysanthemum show I took note of all those I could see. The following is the list: The Egyptian, Wm. Falconer, Wm. Tricker, Niveus, Mrs. H. Robinson, Eda Prass, G. W. Childs, Col. W. B. Smith.

C. H. P.

The Australian and Other New Chrysanthemums

To the Editor of HORTICULTURE:—

Sir:—Your statement on page 505 that "none of the new varieties approach the old standard as to foliage," is so thoroughly at variance with fact, and so misleading, that it should not be permitted to stand unchallenged. The long-necked varieties are but a small minority and usually only appear at the shows in classes for single blooms with short stems. I note that you admit William Duckham among the select. What is the matter with Mrs. William Duckham? Ten vases were shown for the Wells medals at Philadelphia and all carried foliage right up to the flower. Then there is Nellie Pockett and its yellow and even more beautiful counterpart, Cheltoni—a pair that came as near perfection as we may ever hope to attain. Mr. Eugene Duilledouze is authority for saying the handsomest exhibit in the New York Show was a vase of twenty-five Cheltoni and visitors to the Red Bank Show tell me of a wonderful vase of this variety seen there. Just for good measure and to further prove the wildness of your assertion I will mention Harrison Dick, Ben Wells, Mrs. F. A. Cobbold, Leila Filkins, Mrs. A. J. Miller, J. H. Doyle, W. R. Church and Donald McLeod.

These have all been prominently shown in the vase classes and are devoid of marked necks. Mrs. Jerome Jones though handsome in its day is now superseded, or how otherwise do we explain the fact that not a flower of it appeared in the New York and Philadelphia exhibitions.

Arthur Herrington

Chrysanthemum Mme. Marie Liger

I well remember at the Chrysanthemum Show held during the great International Exhibition in Paris in 1900 the close run that Mme. Marie Liger had for the gold medal offered by the Chrysanthemum Society of America for the best new seedling in the show. Its closest opponent was Calvat's Sun, a grand yellow Japanese of immense size, but one that does better in France than in England. At the recent Paris chrysanthemum show there was a goodly number of blooms on show of Mme. Marie Liger, which, considering it is now five years old, is saying something for its merits as a show bloom. The raiser, M. Liger—Lignear of Orleans, had several other new seedlings on view.

C. H. P.

The Kansas City Show



Perhaps the most remarkable feature of the big exhibition at Kansas City last week was the attendance of visitors. Our frontispiece affords some idea of how the public thronged the hall every afternoon and evening. Herewith also appears a view of the exhibition before the admission of the public. A very large and interesting portion of the display being in the space directly under the amphitheatre seats, is not visible in the picture. Most of the cut flower entries, the table and mantel decorations, etc., were so located.

In our telegraphic report of last week the operators omitted a whole page of manuscript, badly confusing our account of one important item, the mantel decorations. These were beautiful, the winners being Samuel Murray, first, with begonia Turnford Hall, orchids and ferns; Arthur Newell, second, with begonia Gloire de Lorraine; and Schaeffer Floral Company, third, with Liberty roses and lily of the valley.

The special features for Thursday were a vase arranged with pompon chrysanthemums, W. L. Rock, Samuel Murray and W. J. Barnes winning in the order named. The silver cup for bowl of roses was won by S. Murray, and the silver cup for decorated buffet table by W. L. Rock.

On Friday the table decoration prizes were repeated, the competition bringing out some faultless centre-pieces, the winners being Miss Jewell with basket of orchids, first; Schaeffer Floral Co., with Sunset roses, second, and Samuel Murray with vandas, catleyas and adiantum, third.

The hall was thronged every day, from 7,000 to 11,000 people being in attendance each evening.

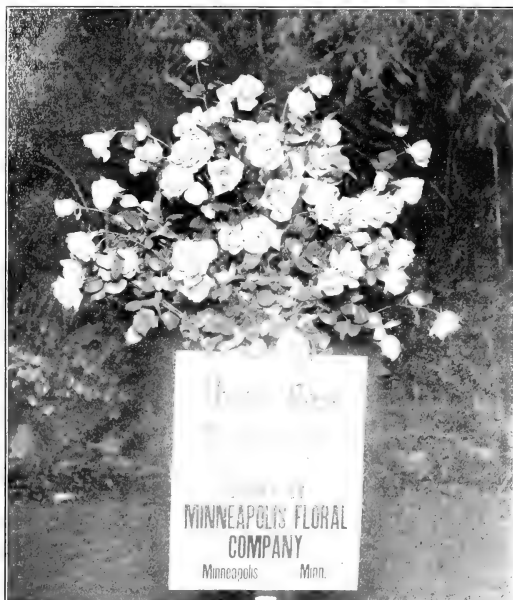
Mr. John N. May, one of the judges and one of the best-known flower men in the country, was quoted in the "Kansas City Journal" of Nov. 17 as follows:

"I have attended most of the important flower shows in this country for many years. The Nephrolepis Piersoni elegantissima, which won first prize Monday night, cannot be duplicated anywhere in this country.

They are the finest specimens I ever saw. In other cities the florists seem to have striven only to multiply the stock, while here attention has been given to produce the finest grade possible. If I were asked to pick out the

finest exhibit in the entire show, I should not hesitate to select these ferns."

We emphatically endorse Mr. May's views. Elegantissima as seen at Kansas City was simply invincible.



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

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INTERESTS

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WM. J. STEWART, Editor and Manager.

Plan now
for next year's
exhibition

With the ending of the exhibition season comes the reckoning. Perfection we may not expect ever to attain but advancement towards it is always possible and much of the benefit we

might have acquired has been lost to us if our experiences of this season have not indicated to us where and how great improvement may be made for the next. It is a gratifying fact that reports from most places where a serious and well-matured effort has been made indicate that popular favor has seconded professional interest in a distinctly encouraging manner. Now, while the spirit is active, is the time for beginning to build for next year. Strengthen the weak spots in the prize list; counsel together as to how arrangements may be bettered and how finer displays and more of them may be assured. Last but not least everyone interested should be given something to do, and the earlier the prospectus is published the better can intending exhibitors plan and prepare.

One very common defect in our prize schedules is the cutting up of the money into numerous premiums for fragmentary exhibits in certain display classes

where small premiums count for but little as attractions. The motive for this practice—the encouragement of the small grower—is, of course, a laudable one and it would be a great mistake and injustice to entirely ignore these contributors but, in large public exhibitions where financial burdens are assumed which must be met by box-office receipts, it is up to the managers to see that every dollar is placed where it will do the most towards a successful financial outcome. In the American Beauty, carnation, and chrysanthemum show-bloom classes it is the big vases of hundreds and fifties that count and, where such are present, the sixes and twelves cut no figure in the public eye. Some other quality other than mere number—as for instance, arrangement or novel adaptation—should be called for if these minor classes are retained, so that as special features they may earn their place and not stand as they otherwise do, mere items in the expense account.

The foliage
question

Anything that Arthur Herrington has to say on chrysanthemum topics is both interesting and instructive and his letter on page 552, although in the way of a criticism of ourselves, is gladly welcomed. We are still of the opinion, however, that the "old standard" as to foliage, which in our judgment is Mrs. Jerome Jones, has never been reached by any other variety and in this we have in mind not only the arrangement of the foliage but its quality of form, size, and texture. Mr. Herrington has certainly listed the best of the Australian varieties. Our criticism was not intended to apply to every individual exhibit in every exhibition but to call attention to the situation in a general way as impressed upon us at Boston, New York and several minor shows. That "a variety comes to the show with big, coarse bare necks" is not always the fault of the variety. Growers with the attainments of Mr. Herrington and Mr. Duckham can be relied upon to bring out all there is in a variety, whether it be in foliage, stem, or finish in any particular. As to Mr. Herrington's query as to why Mrs. Jerome Jones was not shown at New York or Philadelphia we would suggest one reason for its absence from these shows, which is that it blooms too late.

A great
rose

Developments, even at this early date confirm our previously expressed opinion that as a commercial cut flower "Richmond rose will do to Liberty what Liberty did to Meteor." From the standpoint of grower, shipper, retailer and the public this is far and away the best crimson rose ever introduced to the American trade. Mr. Hill's claim that, taken the season through, Richmond will produce ten to one of Liberty seems likely to be verified in the coming season.

Interesting the
retailers

We commend to the flower-show managers the plan adopted at the Chicago exhibition for enlisting the co-operation of the store florists. It was distinctly a success and appears to have been the most effective method ever introduced to insure a fresh and thoroughly attractive appearance in the exhibition hall continuously up to the closing hour. In the light of the large attendance of the people who are good flower buyers no more tempting scheme for interesting and stimulating rivalry among the local retail florists could be evolved.

The flower-
worker in the
exhibition

It will be generally conceded that there was a period when floral designs, as such, did not always present to the cultured eye that degree of artistic excellence and fitness needed to make them desirable objects in the exhibition hall. But the better material and more highly developed taste of the florists of the present day make it possible for the worker in flowers to place before an appreciative and critical public studies in floral arrangement which none may condemn and that can be relied upon to excite a popular interest which will leave a substantial impress on the gate receipts. We do not want to ever again see the horse-shoe and gates-ajar type of floral architecture set forth in our exhibitions but the adornment of the dinner table, mirror, or mantel affords scope for the acceptable demonstration of an art which is excelled by none. Open the doors wide to those who practice it.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

NEW HAVEN COUNTY HORTICULTURAL SOCIETY.

The November meeting of this club was an excellent one, fully seventy-five members being present and twelve new names being added to the roll. The feature of the evening was an instructive address by Prof. B. M. Watson of the Bussey Institution on the subject of Botany for Young Gardeners, which was followed by the usual debate with the advocates of botanical education lined up against the ultra-practical cohorts.

Election of officers for the ensuing year resulted as follows: President, James Wheeler; vice-president, T. H. Westwood; secretary, W. N. Craig; treasurer, Ed. Hatch; executive committee, Peter Fisher, George M. Anderson, M. A. Patten, D. Lumsden. On the exhibition tables were carnations Pink Patten and Mikado, from Patten & Co., Bride and Bridesmaid roses from Montrose Greenhouses, carnation seedling No. 408 from Peter Fisher, Lawson sports from H. A. Stevens & Co., seedlings from Backer & Co., Nephrolepis Whitmanii from H. H. Barrows & Son, Pancratium elegans from James Wheeler, rose Wellesley from Alex. Montgomery, and superb mignonette from Wm. Nicholson.

It was announced that the meeting in December would be ladies' night, at which time J. K. M. L. Farquhar would present a stereoscopic lecture. The sum of \$25 as a special prize was appropriated for the coming exhibition of the American Carnation Society, and a like amount for that of the American Rose Society, and Messrs. Fisher, Montgomery and Pettigrew were appointed a committee on entertainment for these two events.

ONTARIO HORTICULTURAL EXHIBITION.

The above show, which closed on November 18, was in both quality and quantity the best ever held in Canada. In the competition for the \$100 Dallas cup offered by the Timothy Eaton Co., there were nine entries of 25 T. Eaton chrysanthemums of immense size, most of the blooms measuring 19 and 20 inches over. The Hamilton cup was won by the Exhibition Park of Toronto for best group, and the other by T. McHugh of the Forest & Stream Club of Montreal. There was a splendid display of orchids, cattleyas, oncidiums, cypripediums, dendrobium phalaenopsis and begonia Gloire de Lorraine.

On Friday, November 17, forty-eight employees of the Dale estate, Brampton, visited the show as guests of the association. A special car was chartered for the occasion, the reception committee met them at the depot, and then headed by Mr. E. Dale and Mr. W. Algie all marched to Massey Hall. All wore pink badges bearing the words "Dale's People." After looking the show over a cold luncheon was served. The following have been elected as officers of the Toronto Gardeners' and Florists' Association for 1906: President, W. Wiltshire; 1st vice-president, E. Dale; 2nd vice-president, A. Houle; secretary, E. F. Collins; treasurer, George Mills.



The three days annual exhibition of this society Nov. 7, 8, 9, was the fifth in its history, and the increasing attendance on each day was conclusive proof that the display was a fine one. The two challenge cups were won by Walter Angus. F. S. Platt Co. secured the award for group arranged for effect in 100 square feet; Cottage Gardens Co., Queens, N. Y., were first in the carna-

tion classes; Ernest Carrol, H. Cliff, J. P. Sorenson and John Murray were also among the prize winners.

A certificate of merit was awarded to John H. Murray of Yale Botanical Gardens for a new pink seedling chrysanthemum; to David Kydd for a fine yellow sport of Edgar Sanders; to Oscar Carlson and James E. Beach for seedling carnations. Mr. Zuger of Hartford gave excellent satisfaction as a judge.

FLORISTS' AND GARDENERS' CLUB OF RHODE ISLAND.

At the meeting of this club on Nov. 9, resolutions were adopted urging the members of Congress from that State to use their efforts to secure the passage of the "Adams Bill" for increased appropriations for agricultural experiment stations; also to have basic slag meal, a phosphatic fertilizer which is now classified as an iron ore and therefore subjected to duty, placed upon the free list. They also resolved to petition the General Assembly to make an appropriation at the January session sufficient to suppress, if not exterminate the gypsy moth within the limits of the State.

Officers for 1906 were chosen as follows: President, J. F. Schillinger; vice-president, Alexander Macrae; treasurer, Alexander Rennie; secretary, William E. Chappell.

NEWPORT HORTICULTURAL SOCIETY.

A regular meeting of the Society was held Wednesday evening. President Sullivan in the chair. Resolutions were passed for the support of the "Adams Bill" in Congress, for the increase of the national appropriation for the maintenance and extension of agricultural experiment stations; and of placing basic slag meal on the free list.

The annual meeting of this society will be held Dec. 6, when officers for the ensuing year will be elected.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The annual chrysanthemum show closed on Sunday, Nov. 12. A general description appeared in our columns that week, but the list of awards was not given out at time of going to press.

Silver medals were awarded to R. & J. Farquhar & Co. for display of ornamental evergreens; to R. Vincent, Jr., & Son for hardy chrysanthemums. J. S. Bailey won a number of first prizes on chrysanthemums in pots. Arthur F. Whitin, Thomas Howden, gardener, was first with Yellow Mrs. Jerome Jones in the Gane special prize for cut blooms, as well as in several other classes. E. D. Jordan first in the Josiah Braelee prize for 25 blooms of 25 distinct varieties; Thomas Doliber first with 6 vases of 10 blooms each, 6 varieties. Edward Whitin, Peter Robb, gardener, D. F. Roy, T. W. Head, James Nicol and G. F. Fabyan won other prizes for chrysanthemums.

In carnations, William Nicholson was first in crimson, light pink and white classes; Cottage Gardens first in scarlet with Robert Craig; Backer & Co. first with yellow variegated; and S. J. Goddard with white variegated.

At the annual meeting November 18, \$6790 was appropriated for prizes and gratuities for 1906. These officers were elected: President, Arthur F. Estabrook; vice-president (for two years), Walter Hunnewell; treasurer, Charles E. Richardson; secretary, William P. Rich; delegate to the State Board of Agriculture, William H. Spooner.

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grown XX fine.....	18.00	
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Viburnum Opulus, pot grown.....	6.50	
" Plicatum, pot grown.....	7.50	
Staphylea Colehica, pot grown.....	7.50	
Dielytra Spectabilis, strong clumps for forcing	1.00	6.00
Wisterias, pot grown.....	9.00	
Azalea Mollis, brilliant colors.....	\$3.50-5.00	\$30-40.00
English Scarlet Hawthorn, pot grown, ¾ ft..	15.00	
Spirea Japonica, selected strong clumps....		5.00
" astilboides floribunda.....		5.50
" compacta multiflora.....		6.00
" palmata, scarlet variety.....		6.00
" Gladstone.....	1.50	10.00

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10-12 inches Diam.....	4.50	35.00
12-14 " ".....	6.00	45.00
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16-18 " ".....	12.00	90.00

Acacia Paradoxa, fine bushy specimens, 3 ft. \$2.00 each..... 18.00

Roses, H.P., low budded, 2 year old, finest stock ever received. (Per 1000 \$100.00)..... 12.00

Gen. Jacqueminot	Bar. Rothschild	La France
Mrs. John Laing	Paeonia	Gen. Washington
Ulrich Brunner	Gabriel Luizet	Baron Bonstettin
Magna Charta	Marie Bauman	Mad. Plantier

Roses, Tea and Polyantha..... 12.00

Maman Cochet, pink, Maman Cochet, white; Kaiserin Aug. Victoria, Hermosa, pink, Agrippina, red.

Clothilde Soupert, fine for pots, bushy plants.

Crimson Ramblers, per 100..... \$10.00, 15.00, 18.00

Baby Ramblers, 3 inch pots, bushy plants.... 15.00

Aucuba Japonica, very satisfactory for decorative work, per dozen..... \$3.00, 6.00, 9.00

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PHILADELPHIA NOTES.

W. E. McKissick has already found it necessary to procure additional space. The new expansion is on the same floor as his present quarters and is expected to be ready by Christmas.

The L. K. Peacock Company of Atco, N. J., went into the hands of a receiver on the 16th inst., on the application of Messrs. Flood & Green, the trustees, under a provisional financial arrangement entered into last summer. William S. Maule is the receiver. It is understood that the entire stock of dahlia roots is to be sold.

Some of the members of the Florists' Club have been criticizing those in charge of the entertainment of the Baltimore and Washington bowlers on the 8th inst. because all the members of the club were not invited. It should be explained that this was not a club affair but a personal matter largely devolving on the local bowling team. The room was only seated for thirty-five and it would have been impossible to accommodate the nearly three hundred members of the club. All those who subscribed were invited and were present with one or two exceptions. It would therefore seem as if the criticisms are being made under a misapprehension.

There is talk of another series between Philadelphia, Washington and Baltimore, to take place in Washington. It is said the Washingtonians were so afraid of some Philadelphia politician stealing their cup that they carried it home with them without waiting to get it engraved. They are hereby notified that it will be quite safe (now that the city is scrubbed and contented) for them to express it back and have it engraved at the expense of the donor, Mr. Samuel S. Pennock.

SPECIAL TO CARNATION GROWERS!

We believe the coming commercial scarlet carnation is the JOHN E. HAINES and the coming commercial white MY MARYLAND. So convinced are we of this fact that we recommend liberal planting of same by all our friends. We have made arrangements with the originator to supply rooted cuttings of these two great varieties as follows:

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Good variety at reasonable prices

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PHILADELPHIA

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Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

Artistic Designs High Grade Cut Blooms

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Connecticut Avenue and L Street
WASHINGTON, D. C.

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Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

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A. Gude & Bro.

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BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 1. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Valley v. olets and all Cut Flowers

**A Daily Shipment
From 40 to 60 Growers**

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Flower and Supply Wants to advantage
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CUT FLOWERS

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**WHOLESALE FLOWER MARKETS
TRADE PRICES—Per 100—to DEALERS ONLY**

	CHICAGO Nov. 22	ST. LOUIS Nov. 20	PHILA. Nov. 22	BOSTON Nov. 24
ROSES				
Am. Beauty and Edgely Fan, & Sp.	10.00 to 13.00	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00
" EXTRA.....	11.00 to 12.00	12.00 to 15.00	15.00 to 18.00	10.00 to 15.00
" No. 1.....	12.00 to 16.00	8.00 to 10.00	10.00 to 12.00	6.00 to 8.00
" Lower grades.....	6.00 to 8.00	3.00 to 6.00	5.00 to 6.00	3.00 to 4.00
Bride & Maid—Fan, & Sp.....	7.00 to 8.00	4.00 to 5.00	5.00 to 6.00	6.00 to 8.00
" EXTRA.....	6.00 to 7.00	2.00 to 3.00	3.00 to 4.00	4.00 to 6.00
" No. 1 and Lower gr.....	4.00 to 5.00	2.00 to 3.00	1.00 to 2.00	.50 to 2.00
Liberty, Fancy & Special.....	8.00 to 10.00	4.00 to 5.00	5.00 to 8.00	10.00 to 8.00
" Ordinary.....	6.00 to 8.00	2.00 to 3.00	3.00 to 5.00	10.00 to 4.00
Carnot and Kaiserin Fancy.....	7.00 to 10.00	4.00 to 6.00	6.00 to 8.00	15.00 to 20.00
" Ordinary.....	4.00 to 6.00	2.00 to 3.00	3.00 to 4.00	.50 to 2.00
Golden Gate, Chateaux, Fancy.....	10.00 to 12.00	4.00 to 6.00	3.00 to 4.00	4.00 to 6.00
" Ordinary.....	4.00 to 6.00	2.00 to 3.00	3.00 to 4.00	.50 to 2.00
CARNATIONS				
Fancy Class.....	4.00 to 6.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
General Class and Lower grades.....	3.00 to 4.00	1.00 to 1.50	1.00 to 1.00	1.00 to 2.00
MISCELLANEOUS				
Cattleyas.....	60.00 to 75.00	..... to 40.00	40.00 to 50.00	..... to 50.00
Lily of the Valley.....	4.00 to 5.00	1.00 to 1.00	4.00 to 5.00	3.00 to 5.00
Chrysanthemums.....	6.00 to 8.00	3.00 to 4.00	25.00 to 25.00	4.00 to 12.50
Violets.....	1.50 to 2.00	1.00 to 1.00	1.50 to 1.50	.50 to .50
Adiantum Cuneatum.....	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00	.50 to 1.00
" Crownatum.....	1.00 to 1.00	1.00 to 1.00	1.00 to 1.00	1.25 to 1.50
Smilax.....	12.00 to 12.50	1.00 to 1.00	15.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings.....	50.00 to 50.00	25.00 to 25.00	50.00 to 50.00	35.00 to 50.00
" Sprengeri, bunches.....	15.00 to 15.00	25.00 to 25.00	50.00 to 50.00	20.00 to 50.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

**Roses and
Carnations
A Specialty.....**

WHOLESALE

GROWER of

CUT FLOWERS

MUMS, BEAUTIES, VALLEY

Wholesale Florists

PHILA. CUT FLOWER CO. 1516-1518 SANSON ST., PHILA.

TO BUYERS

Patronize our Advertisers, they will treat you right

VICTORY

THE BEST SCARLET CARNATION—Requires only ordinary culture

Flower Market Reports.

BOSTON Market rather sluggish. Chrysanthemums are rapidly disappearing from the market and remnants will soon be the only reminder of their sway. With their departure roses and carnations will undoubtedly advance in importance and price. Both are excellent as to quality, Enchantress being especially fine, and leading in the carnation field. Roses are much better all along the line than price quotations indicate. Paper white narcissi are a regular item now in the list of market staples.

A little improvement on Buffalo sale of chrysanthemums for the past week is about the only thing that can be reported. Other stock is plentiful, especially roses of ordinary quality, which were hard to move. Carnations are coming on better. Beauties have hardly any call and at times sell much lower than list price; violets of fine quality are seen daily and demand fair.

The reaction that was to be expected after the boom of a few weeks ago, when flowers were scarce and the demand good, has set in earnest. The supply now is pretty heavy and the demand light, which makes goods move very slowly even at bargain-counter prices. Violets are in demand and good stock is scarce. Lily of the valley is coming in steadily and being taken at medium prices. American Beauty and Liberty roses are bringing fairly good prices. There is an over sufficiency of Brides and Bridesmaids. Carnations are coming on in medium quantities, with a fair demand. Chrysanthemums are still very much in evidence, with a light demand for every-

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always used. Branch Laurel, 35¢ per large bundle, 1 lb by the pound or made into festooning when desired.

FERN No. 1 STOCK,
only 75¢ per 1000
Brilliant bronze or green
75¢ per 1000

GALAX, Use our laurel festooning for your decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily, gathered fresh from the woods. Hand made, full sizes, 4, 5 and 6 per yard. Once used, always used. Branch Laurel, 35¢ per large bundle, 1 lb by the pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

thing but white, the demand for white varieties is good and fancy stock is scarce. Oncidiums, dendrobiums and cypripediums are all bringing good prices for fancy stock. Gardenias are coming in and may be had at a reasonable figure.

LOUISVILLE Business conditions the previous week have been very encouraging, and stock generally could be found in good quantity. Chrysanthemums are in good supply, with the demand and quality all that could be desired. Carnations are scarce. Roses are satisfactory in quality and quantity, with the demand up to expectations. Other stock in variety is supplied and demanded satisfactorily.

NEWPORT The recent cold snap put a quietus on everything hitherto available out doors, and now as a result things are on a more satisfactory footing. Prices have advanced considerably on roses and carnations and slightly on chrysanthemums. The latter are not in as great demand as was expected, but fair prices are paid for good flowers.

There are expectations that more than usual attention will be given plants and flowers on Thanksgiving week this year. While dealers anticipate no reduction in this season's violet sales, it can easily be seen that the supply must come from outside of Newport, as comparatively few are grown here this season.

NEW YORK Business is generally dull and unsatisfactory from the standpoint of the wholesale dealer and grower. The retail traders make less complaint for, although none of them are over-burdened with work, prices and qualities are so much in their favor that they cannot but feel happy. The only item in the list that is inclined to soar is the violet, and the explanation is simple—Yale foot-ball demand. Chrysanthemums are still abundant and exhibition blooms are common.

PHILADELPHIA Carnations led the market here the past week. Roses and chrysanthemums were fine but too plentiful. Gardenias and lily of the valley were draggy. Lady Campbell violets as produced in this latitude are very sweet and go better than Marie Louise and other varieties coming from distant points. Orchids are in good demand, cattleyas and oncidiums being the leaders. Roses such as Chatenay, Richmond, Killarney and Liberty went nicely and at more remunerative prices than the staple sorts. White and yellow Eatons were the leaders in the chrysanthemum columns. Some fine Chadwicks, both pink and yellow, are expected in a day or two. The prospects for Thanksgiving trade seem to be excellent.

ST. PAUL AND MINNEAPOLIS Market conditions are good, and business moves along at a lively rate. The demands of society upon the florists keep the stock cleaned out and the decorators busy. Violets and carnations are still a little short, but roses and chrysanthemums are plentiful and in prime condition. Liberties are coming in slowly, but Beauty, Bride, Bridesmaid, Chatenay, Perle, Golden Gate and Kaiserin are in good quantities.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cypas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.
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20 West 27th St., New York.

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New crop now ready in limited quantities.
EVERGREEN, ALA.

Smilax Strings

In Quantity

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EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1526 Ram-rod Street, PHILADELPHIA
Store Closes 5 P. M.

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BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

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Wholesale Commission Florist

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FINEST ROSES and VIOLETS

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders

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Write for Current Prices

In writing advertisers, mention Horticulture

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Nov. 18 1905		First Half of Week beginning Nov. 20 1905			Last Half of Week ending Nov. 18 1905		First Half of Week beginning Nov. 20 1905	
Roses					Carnations				
Am. Beauty, fan and sp.....	10.00	to 20.00	10.00	to 20.00	Fancy Class.....	2.00	to 3.00	2.00	to 3.00
" extra.....	8.00	to 10.00	8.00	to 10.00	General Class and Lower grades...	1.00	to 1.50	1.00	to 1.50
" No. 1.....	5.00	to 8.00	5.00	to 8.00	Cattleyas	50.00	to 75.00	50.00	to 75.00
" Lower grades.....	.50	to 2.00	.50	to 2.00	Lily of the Valley	2.00	to 3.00	2.00	to 3.00
Bride & 'Maid, fan and sp.....	4.00	to 6.00	4.00	to 6.00	Chrysanthemums	3.00	to 25.00	3.00	to 25.00
" extra.....	2.00	to 4.00	2.00	to 4.00	Oncidiums	2.00	to 3.00	2.00	to 3.00
" No. 1 and lower grades.....	.50	to 1.00	.50	to 1.00	Lilies	6.00	to 10.00	6.00	to 10.00
Liberty, Richmond fan, and sp.....	6.00	to 12.00	6.00	to 12.00	Violets.....	.75	to 1.50	.75	to 1.50
" Ordinary.....	.50	to 3.00	.50	to 3.00	Adiantum Cuneatum.....	.50	to .75	.50	to .75
Carnot and Kaiserin, fancy.....	3.00	to 5.00	3.00	to 5.00	" Crownatum.....	4.00	to 1.20	3.00	to 1.25
" Ordinary.....	.30	to 2.00	.50	to 2.00	Smilax	6.00	to 10.00	6.00	to 10.00
Golden Gate, Chateaux, fancy.....	5.00	to 8.00	5.00	to 8.00	Asparagus Plumosus , string....	20.00	to 35.00	20.00	to 35.00
" Ordinary.....	.50	to 2.00	.50	to 2.00	" and Sprengeri, bunches....	10.00	to 25.00	10.00	to 25.00

JOHN YOUNG
Wholesale **FLORIST**
51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.
Lily of the Valley, Orchids and
Lilies. Renowned Cottage
Garden Carnations.**Edward C. Horan**
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New York

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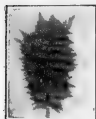
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Young & Nugent

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In writing to Advertisers kindly mention Horticulture



Fancy Ferns

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30 and 40 Miami Ave., DETROIT, MICH.

\$1.00 per 1000
Discount on Regular Shipments

Michigan Cut Flower Exchange WM. DILGER
Manager

Charles Millang

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Cut Flowers on Commission

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Telephone: 3860-3871 Madison Square

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Commission Merchants in Cut Flowers
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FLORISTS' SUPPLIES
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55 and 57 W. 26th St., NEW YORK
Cut Flower Exchange Tel. 830 Madison Square.
OPEN 6.00 A.M.
AN UNEQUALLED OUTLET FOR ASSIGNED FLOWERS

JULIUS LANG Wholesale Florist

Consignments received, sold well
and returns made promptly.
53 WEST 30th ST., NEW YORK
Telephone, 280 Madison Sq.

ESTABLISHED 1872

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115 W. 30th St., New York
Tel. No. 956 Madison Square
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Carnations and Violets. Quick returns and
highest prices.

Chrysanthemums, Carnations

AND ROSES

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Established 1891 BUY FROM
SHIP TO TRY ME

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ALFRED H. LANGJAHN
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KINDLY MENTION HORTICULTURE

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Lowest Wholesale Rates

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Headquarters in Western New York for

Roses

Carnations

And all kinds of Seasonable Flowers

WM. F. KASTING

Wholesale Commission Florist
Also Dealer in Florists' Supplies and
Wire Designs
383-87 Ellicott St., Buffalo, N. Y.
Give us a Trial We can please you

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.
WE HAVE VERY FINE CUT BOX WOOD.
DAGGER AND FANCY FERNS.
NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.
Headquarters for all FLORISTS' SUPPLIES. Wire
Designs Cut Wire, Letters, Immortelles, Cypres Leaves,
Wheat Sheaves, Ribbons, Corrugated Boxes, etc.
LAUREL FESTOONING, 5c and 6c, per yard.
HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, Main 288.



WHOLESALE FLOWER MARKETS. TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Nov. 14		Nov. 22		Nov. 22		Nov. 21	
ROSES								
Am. Beauty, fan. and sp.....	20.00	to 25.00	.....	to 40.00	20.00	to 25.00	25.00	to 30.00
" extra.....	12.50	to 15.00	.....	to 12.00	12.00	to 15.00	12.50	to 15.00
" No. 1.....	8.00	to 10.00	.....	to 6.00	6.00	to 8.00	8.00	to 10.00
" Lower grades.....	.....	to 6.00	10.00	to 10.00	3.00	to 6.00	3.00	to 5.00
Bride and Maid, fan. and sp.....	5.00	to 6.00	.....	to 5.00	3.00	to 7.00	6.00	to 8.00
" extra.....	3.00	to 4.00	.....	to 5.00	5.00	to 6.00	5.00	to 6.00
" No. 1 and Lower gr	2.00	to 3.00	4.00	to 4.00	3.00	to 4.00	3.00	to 4.00
Liberty, fan, and sp.....	.....	to 8.00	.....	to 8.00	5.00	to 8.00	3.00	to 8.00
" Ordinary.....	.....	to 4.00	.....	to 3.00	3.00	to 6.00	.....	to 4.00
Carnot and Kaiserin, Fancy.....	5.00	to 6.00	.....	to 8.00	6.00	to 8.00	3.00	to 8.00
" Ordinary.....	3.00	to 4.00	4.00	to 4.00	4.00	to 6.00	3.00	to 5.00
Golden Gate, Chateauf, Fancy.....	8.00	to 5.00	.....	to 8.00	4.00	to 6.00	1.00	to 6.00
" Ordinary.....	.....	to 4.00	4.00	to 4.00	3.00	to 4.00	3.00	to 5.00
CARNATIONS								
Fancy Class.....	3.00	to 4.00	.....	to 3.00	2.50	to 4.00	2.50	to 4.00
General Class.....	1.50	to 2.00	1.00	to 1.00	1.00	to 2.00	1.50	to 1.50
MISCELLANEOUS								
Cattleyas.....	.....	to 50.00	.....	to 40.00	40.00	to 60.00	.....	to 50.00
Lily of the Valley.....	.....	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Violets.....	50	to 75	3	to 75	75	to 1.50	1.75	to 1.50
Lilies.....	12.00	to 15.00	.....	to 10.00	.....	to 10.00	.....	to 10.00
Chrys-anthemums.....	4.00	to 20.00	4.00	to 15.00	5.00	to 20.00	6.00	to 25.00
Adiantum Cuneatum.....	.....	to 1.00	1.00	to 1.50	50	to 2.00	75	to 1.00
" Croweatum.....	.....	to 1.00	1.00	to 1.25	1.25	to 1.50	1.25	to 1.50
Smilax.....	12.50	to 15.00	.....	to 15.00	12.00	to 15.00	10.00	to 20.00
Asparagus Plumosus, string.....	1.00	to 10.00	25.00	to 50.00	40.00	to 50.00	25.00	to 50.00
" Sprengeri, bunches.....	25.00	to 35.00	25.00	to 40.00	25.00	to 50.00	20.00	to 30.00

PHIL. F. KESSLER

* FLOWERS *

Wholesale — Commission
Correspondence Solicited

57 West 26th Street, NEW YORK

Tel. 2921 Madison Square

GEORGE SALTFOORD

Wholesale Commission Dealer In

Cut Flowers

CONSIGNMENTS DESIRED

46 W 29th Street, New York
Tel. 3343 Madison Sq.

Geo. A. Sutherland Co.

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Florists' Supplies and Letters
34 HAWLEY STREET - - BOSTON

List of Advertisers

Page	Page
Allen Wm. Stuart Co.	McComell Alex., 559
Aschmann Guldrey, 557	McGorum R. T., 560
Baker Wm., 560	McKellar Charles W., 560
Bambrick, Thos., 560	McKinnick, W. E., 561
Barrows H. H. & Son, 558	McMurry L. T., 562
Bayersdorfer H. & Co., 559	Meehan Thos. & Son, 558
Beaven, E., 561	Metropolitan Material
Black, Chas., 561	Co., 562
Blackstone Z. D., 561	Michell H. F., 559
Boas W. J., 560	Michigan Cut Flower
Bobbins & Atkins, 557	Co., 561
Boddington A. T., 559	Milling Charles, 563
Bonnot Bros., 561	Mutang Frank, 562
Boston Florist Letter	Moninger J. C., 567
Co., 559	Mr. Henshiff Nurser-
Breck Joseph & Sons, 550	ies, 562
Breimeyer's J. S. Sons, 559	Murphy L. E., 563
Budling J. A., 550	Niessen Leo, 560
Burnham Hitchings	Peacock L. K., 561
Pierston Co., 568	Pennock Samuel, 557-559
Perpue W. A. & Co., 559	Perkins John, 563
Chicago House Wreck-	Phelan Cut Flower Co., 560
ing Co., 567	Pierston F. R., 568
Chicago Carnation	Pittsburg Cut Flower
Co., 547	Co., 563
Cochran Mushroom	Pye R. C., 567
& Spawm Co., 558	Ramona Nursery, 558
Cooke G. H., 559	Rawson W. W. & Co., 559
Cottage Gardens, 566	Raynor John, 562
Crowl Fern Co., 561	Reed & Keller, 559
Dilger Wm., 563	Reid Edw., 561
Dimmock A., 558	Reinberg Peter, 560
Dreer H. A., 568	Robinson H. M. &
Dysart R. J., 567	Co., 563
Elliott Wm. & Son, 558	Roehrs Julius, 558
Euler J. G., 568	Rolker August & Son, 562
Ernest W. H., 567	Roschl & Grun, 562
Farguhar R. & J.,	Salford, Geo., 563
Co., 550	Sander & Son, 558
Fleury F. W., 558	Schillo Lumber Co., 568
Ford Bros., 560	Schmidt J. C., 560
Forest Nursery &	Sealey John A., 567
Seed Co., 546	Scott John, 563
Froman H. R., 559	Sharp, Partridge & Co., 568
Fromow W. & Sons, 546	Sherridan W. F., 562
Grey T. J. & Co., 556	Shivers J. H. & Co., 547
Gude A. & Bro., 559	Siggers & Siggers, 567
Gurney Heater Mfg.	Situations & Wants, 566
Co., 567	Skidley S. S., 558
Gutman Alex. J.,	Stern J. & Co., 559
547-557-561-562-516	Stearns A. T. Lumber
Haill Asso., 563	Co., 567
Hammond Paint &	Stevens H. A., 567
Slug Shot Works, 550	Stump & Walter Co., 558
Heller & Co., 559	Sutherland Geo. A.,
Herzog W. S., 558	Co., 563
Hews A. H. & Co., 567	Suzuki & Iida, 557
Holly Castle Co., 568	Thompson J. D. Co., 547
Horan E. C., 567	Thompson Walter, 567
Horticulture Pub. Co., 567	Thornburn J. M., 560
Hunt E. H., 560	Thornburn Bros., 568
Igoe Bros., 547	Totman H. M., 558
Jones Hiram T., 546	Tranclady & Schenck, 560
Kasting W. F., 563	Troy J. H., 556
Kervan Co., 560	Vaughan's Seed Store, 546
Kessler, P., 563	Vaughan and Sperry, 560
King Cons. Co., 567	Walsh M. H., 546
Kinsler A., 560	Ward Ralph M. Co., 558
Koral Mfg. Co., 560	Watson G. C., 558
Kroninger, E. N., 547	Weber F. C., 559
Lager & Hurrell, 558	Weber F. C. & Sons, 547
Lang Julius, 563	Welch Bros., 560
Langland, Alfred H., 563	Wetland & Ruch, 560
Leathly A. & Co., 558	Wemyr Bros., 560
McCarthy N. F. &	Wimerich C., 546
Co., 561	Winter-on E. F., 560
	Young John, 562
	Young & Nugent, 562
	Young Thos. Jr., 559

Buyer's Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ABIES ARIZONICA CACTI.

G. & M. Hochdoffer, Flagstaff, Ariz.

ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.

For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.

For page see List of Advertisers.

BALESTRA.

Joseph Breck & Sons, 51 and 52 N. Market St., Boston.

For page see List of Advertisers.

ARAUCARIAS.

H. A. Dreer, Philadelphia.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.

Bermuda Harriell Bulbs.

For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.

French and Dutch Bulbs.

For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H.

Bermuda Crown Harriell and Free-lan.

R. & J. Farquhar & Co., Boston.

Catalogue of Holland Bulbs and Roots.

For page see List of Advertisers.

J. M. Thorburn & Co., 30 Cortlandt St., New York.

Decorative Evergreens.

For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

H. F. Michell & Co., Philadelphia, Pa.

For page see List of Advertisers.

Ramona Nurseries, Shorb, Calif.

For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

For page see List of Advertisers.

CALLAS.

H. F. Michell & Co., Philadelphia, Pa.

For page see List of Advertisers.

CARNATIONS.

John H. Slevyers & Co., 1251 Chestnut St., San Francisco, Cal.

Hannah Hobart.

For page see List of Advertisers.

Robert C. Fye, Nyack, N. Y.

For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Carnation, Variegated Lawson.

J. D. Thompson Carnation Co., Joliet, Ill.

For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass.

Rooted Cuttings Variegated Lawson.

For page see List of Advertisers.

Cottage Gardens Co., Queens, N. Y.

Carnation, Robert Thos.

For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y.

Carnation Victory.

For page see List of Advertisers.

E. N. Kroninger, Allentown, Pa.

For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y.

For page see List of Advertisers.

CHRYSAETHUM STOCK PLANTS.

Polly Rose, Wanamaker, Ivory, White Bonnaft, Perrin, Pacific, Enguehard, Balfour, Coonier, Hilladay, Yellow Bonnaft, Christall Hill, Golden Chudwick, Heman, \$1.00 per doz. \$6.00 per 100. Peirce Bros., Waltham, Mass.

R. T. McGorum, Natick, Mass.

For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.

For page see List of Advertisers.

COLD STORAGE VALLEY PIPS.

J. M. Thorburn & Co., 36 Cortlandt St., New York.

For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.

For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.

For page see List of Advertisers.

DAHLIAS.

L. K. Peacock, Inc., Alco, N. J.

For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.

For page see List of Advertisers.

ELECTRIC CIRCUITATOR.

Holly-Castle Co., 49 Federal St., Boston.

For page see List of Advertisers.

EVERGREENS.

Hiram T. Jones, Elizabeth, N. J.

For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Rosindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.

Nephrolepis Harrowall.

For page see List of Advertisers.

S. S. Skidley, 824 N. 24th St., Philadelphia.

For page see List of Advertisers.

W. W. Coles, Kokomo, Ind.

Boston Ferns.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.

For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.

For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.

Decorative Evergreens.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Reed & Keller, 125 1/2 25th St., New York.

For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.

For page see List of Advertisers.

J. Stern & Co., 1925 Germantown Ave., Philadelphia.

For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.

For page see List of Advertisers.

Fred C. Weber, 432 28 Olive St., St. Louis, Mo.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.

For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.

For page see List of Advertisers.

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FLOWERS BY TELEGRAPH.

(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.**FLOWER POTS.**W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.**FOLDING BOXES.**Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.**FREESIAS.**H. F. Michell & Co., Philadelphia, Pa.
For page see List of Advertisers.**GLADIOLUS.**Rowell & Granz, Hicksville, L. I., N. Y.
For page see List of Advertisers.**GLASS.**Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.**GLAZING POINT.**H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.**GREENHOUSE BUILDING MATERIAL.**Burnham Hitches Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.John C. Moulting Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.**HARDY FERNS AND SUPPLIES.**H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.The Kervan Co.,
20 W. 27th St., New York.
For page see List of Advertisers.Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Diller, Mgr.
Fancy Ferns.
For page see List of Advertisers.Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.**HEATING APPARATUS.**Burnham Hitches Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.Walter Thompson, 2195 Boulevard,
Jersey City, N. J.
For page see List of Advertisers.**IMPORTING HOUSES.**August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.B. M. Ward & Co., New York.
Plants tender or hardy.
For page see List of Advertisers.R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.**JAPANESE PLANTS.**Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.**MASTICA.**

F. O. Pierce Co., New York, N. Y.

MICE PROOF SEED CASES.Heiler & Co., Montclair, N. J.
For page see List of Advertisers.**MUSHROOM SPAWN.**Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.**NICOTIANA SANDERAE.**Sander & Sons, St. Albans, Eng.
For page see List of Advertisers.**NURSERY STOCK.**Mt. Hissariik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.**ORCHID PLANTS.**Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroedernum.
For page see List of Advertisers.O. A. Miller, 48 Watson Ave.,
E. Orange, N. J.**PAEONIES.**Gilbert H. Wild, Sarcozie, Mo.
For page see List of Advertisers.Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.**PALMS.**Romona Nurseries, Shorb, Cal.
For page see List of Advertisers.**PATENTS.**Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.**PEERLESS REPAIR CLAMP.**A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.**PLANTS, BEDDING.**J. C. Schmidt Co., Bristol, Pa.
Fausies, Daisies, Forget-Me-Not, Gerani-
ums.
For page see List of Advertisers.A. Leuthy & Co., Rosendale, Mass.
For page see List of Advertisers.Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.

P. J. Berckmans Co., Fruitland Nurseries,
Augusta, Ga.
For page see List of Advertisers.Bobbluk & Atkins, Rutherford, N. J.
Azalea Indica, Kentia, Baya.S. S. Pennock, Philadelphia.
Boxwood Sprays, Dwarf Evergreens, Cedar
Bark.
For page see List of Advertisers.**PLANTS, HARDY.**H. A. Stevens Co., Dedham, Mass.
Peonies and Philox.
For page see List of Advertisers.**PUBLICATIONS.**The Chrysanthemum, Horticulture Publish-
ing Co., Boston.
For page see List of Advertisers.The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.**RETAIL FLORISTS.**Julius A. Zian,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.Alex. McConnell, New York.
For page see List of Advertisers.Thomas Young, Jr., New York.
For page see List of Advertisers.Fred C. Weber, 4325 Olive St., St. Louis, Mo.
For page see List of Advertisers.**RETAIL FLORISTS.**

(Continued.)

J. Bretmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.Young & Nugent, New York.
For page see List of Advertisers.Z. D. Blackstone, 14 & H Sts., Washing-
ton, D. C.
For page see List of Advertisers.George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.**ROSES.**M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.
August Rolker & Sons, 31 Barclay St.,
New York.English-Grown Roses.
For page see List of Advertisers.Thos. Meehan & Sons, Dreshertown, Pa.,
Box C.
Manetti Rose Stock.
For page see List of Advertisers.Hiram T. Jones, Elizabeth, N. J.
Crimson Rambler.
For page see List of Advertisers.Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.G. C. Watson, Philadelphia.
Crimson Ramblers.**SCOTT FERN.**John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.**SEEDS.**W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
Cyclamen Seed.
For page see List of Advertisers.Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.Forest Nursery & Seed Co., McMinville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.Conrad Appel, Darmstadt, Germany, Ex-
tab. 1789, High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.**STEAM TRAP.**

E. Hppard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitches Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moulting Co., 421 Hawthorne Ave.,
Chicago.**WHOLESALE FLORISTS.**

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kastig, 383-87 Elliott St., Buf-
falo, N. Y.

VICTORY

THE BEST SCARLET CARNATION—Being remarkably prolific

WHOLESALE FLORISTS.

(Continued.)

Chicago.

For page see List of Advertisers.
J. A. Budong, 37 Randolph St., Chicago.
H. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
A. L. Randall Co., 21 Randolph St., Chicago.
Welland & Riach, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 49 Wabash Ave., Chicago.
E. F. Wintersou Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 129 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Ave. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Ford Bros., 48 West 28th St., New York.
H. E. Froument, 19 West 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McLean, 50 West 28th St., New York.
Chas. Millang, 50 West 29th St., New York.
Frank Millang, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John L. Raynor, 49 W. 28th St., New York.
George Sanford, 46 W. 28th St., New York.
W. F. Sheridan, 39 West 28th St., New York.
Trandely & Schenck, 44 W. 28th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
Dumont & Co., Philadelphia.
W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Nissen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

CARNATIONS, JOHN E. HAINES, MY MARYLAND.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

CHRISTMAS BELLS AND WREATH ING.

J. Stern & Co., Philadelphia.
For page see List of Advertisers.

CHRISTMAS PLANTS.

W. S. Herzog, Morris Plains, N. J.
For page see List of Advertisers.

FORCING AND DECORATIVE PLANTS, AZALEAS, ROSES, ETC.

Robbink & Atkins, Hartford, N. J.
For page see List of Advertisers.

NEPHROLEPIS PIERSONI ELE-GANTISSIMA

F. R. Pierson Co., Tarrytown on Hudson, N. Y.
For page see List of Advertisers.

RUSSIAN LILY OF THE VALLEY.

Stump & Walter Co., 50 Barclay St., New York.

For page see List of Advertisers.

SNAP DRAGON, SWEET PEAS, GERANIUMS.

H. M. Tutman, Randolph, Vt.
For page see List of Advertisers.

OBITUARY.

On October 31 last, Alessandro Scalarandis, formerly gardener to King Humbert of Italy, passed away at the early age of 44. Mr. Scalarandis was a genial worker in the field of European horticulture, and was much esteemed by all those who knew him personally. When the Italian National Chrysanthemum Society was started a few years ago, he was one of the founders and was elected president, a position he relinquished soon after he left Monza, where his royal master was assassinated.

Mr. Scalarandis remained in the service of Queen Margherita as head gardener over the royal gardens in Piedmont, residing at those at Stupping, near Turin. He leaves a family of five motherless children to survive him. In recognition of his services, the deceased wore the order of the Knight of the Crown of Italy, and of Belgium. He was also officer of the Merite Agricole (France).

On November 12, after a brief illness, Timothy Ward Wood died at his residence, Oaklands, Richmond, Va., in his sixty-sixth year. Mr. Wood returned in September from a three months' trip abroad in search of health, and has gradually failed since that time. He was an ex-president of the American Seed Trade Association.

An honorable career marked with good deeds and Christian charity distinguished a life of faithful service to God and his fellow men.

M. de Reydellet, a once well-known raiser of seedling chrysanthemums in France, and of whose seedlings very few now remain in cultivation, either in England or America, died recently. For about 38 years he was engaged in the work, first as an amateur, and then on his retirement from active work in one of the French railway companies' offices, as a professional. He was a member of both the English and French N. C. S., and was a Chevalier of the Merite Agricole.

Frank Beagan, who had charge of the Hope greenhouses at Washington Park and the Conley greenhouses at Uplake street, Providence, R. I., died on Oct. 30, aged 50 years.

James Morrison, who for the past two years has been engaged in the retail florist business in Easthampton, Mass., died suddenly on the morning of Nov. 7.

Mrs. A. F. Barbe, of Kansas City, Mo., died on the morning of November 14, at the Women's and Children's Hospital.

SEED TRADE.

The delayed reports from growers of peas and beans lead all to believe the yield to be far below the average. Onion seed is very short; sweet peas almost a total failure.

Root crops selling well and not a large supply on hand.

W. E. Sanderson, with J. M. Thorburn & Co., is with his old friends once again for the winter business. Headquarters, Hotel Thorndike, Boston.

NEWS NOTES.

F. D. Harshorn is starting in the florist business in Augusta, Me.

It is reported that on account of rain, snow and cold weather in the green district the crop of bouquet green is liable to fall short nearly 70 per cent of the average unless conditions change.

S. S. Pennock has become interested in the new scarlet carnation, John E. Haines, and is now offering young plants of same for delivery January 1. Mr. Peter Fisher thinks well of Haines as noted in our issue of October 28th.

Valentine Burgevin's Sons opened their flower store in the new Burgevin building on the corner of Fair and Main streets, Kingston, N. Y., on Saturday, Nov. 11. David Burgevin will have charge of the store and retail trade, while George Burgevin will have entire supervision of the greenhouses and wholesale department on Pearl street.

WANTS.

WANTED—A Practiced Nursery Office Man, who is acquainted with Nursery Business, can also act as Salesman. Good salary and cottage, steady position. Address, with reference, "W. C. W.," care THE HORTICULTURE.

WANTED—Salesman; bright, active man, thoroughly competent, for ribbons, supplies and cut flowers. Apply with full particulars as to salary wanted, experience, references, to S. S. Pennock, 1612-18 Ludlow Street, Philadelphia.

SITUATION WANTED as private gardener—succession, \$1 per thousand. Early and late Flat Dutch Celery, Giant Pascal, S. H. Blandish and White Plum, \$1 per thousand. Cauliflower, Snow Ball, \$2 per thousand. Ten thousand rooted cuttings of Norway, the crackle-jack summer blooming carnation now ready at \$10 per thousand. Address Edward Woodfall, Glen Burnie, Md.

THE CHRYSANTHEMUM

Its Culture for Professional Growers and Amateurs

By Arthur Herrington

The most complete and comprehensive work on the cultivation of the chrysanthemum that has yet been published in America. Its scope and character may be gleaned from the list of contents, which comprise: chapters on culture for exhibition; composts; planting; benches, boxes or pots; general cultural details; crown and terminal buds; feeding; its object and application; care of the buds; exhibition and judging; specimen plants; chrysanthemum plants in six inch pots; commercial culture, raising from seed and hybridizing; sports; hardy chrysanthemums; chrysanthemums for south and west; chrysanthemums in Australia; insect pests and diseases; classification and selection of varieties for special purposes; and history of the chrysanthemum. The book will be welcomed both by the professional and amateur growers of chrysanthemums, for the lucid, comprehensive as well as the practical character of its contents, which, if strictly followed, cannot fail to bring about the desired results, namely, the obtaining of large chrysanthemum flowers in the greenhouse, and a profusion of bloom in the garden. Handsomely illustrated. 108 pages. 5x7 inches. Price, 50c.

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HOT BED SASH
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ERECTED AND EQUIPPED COMPLETE IF DESIRED

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HORTICULTURE

Vol. II.

DECEMBER 2, 1905

No. 23



E. G. HILL'S SEEDLING, A1

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See our advertisement in last issue—Page 548.

HORTICULTURE

VOL II

DECEMBER 2, 1905

NO. 23

PUBLISHED WEEKLY BY

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11 Hamilton Place, Boston, Mass.

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WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPICE—E. G. Hill's Seedling A 1		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
INTERNATIONAL CHRYSANTHEMUM SHOW IN PARIS—C. Harman Payne	575	Pittsburg and Allegheny Florists' and Gardeners' Club	580
HINTS ON BOILERS AND HEATING	576	Utica Florists' Club	580
THE FOLIAGE QUESTION—E. G. Hill	576	American Carnation Society	580
BRITISH HORTICULTURE—W. H. Adsett	577	Chrysanthemum Society of America	580
EDITORIAL	578	Group at Boston Exhibition—Illustration	580
AFTER ADJOURNMENT'	579	Club and Society Notes	580
STILL UNDER TRIAL—Peter Fisher	579	SOME RICHMOND ROSES	581
PERSONAL	579	CUT FLOWER MARKET REPORTS	
OUT OF THE BEAN POD—R. T. McGorum	579	Boston, Indianapolis, Louisville, Newport, New York, Philadelphia	585
BEGONIA PROPAGATION	597	MISCELLANEOUS	
NEWS OF THE CLUBS AND SOCIETIES		News Notes	579-590
Seattle Florists' Association	580	Philadelphia Notes	581
Morris Co. Gardeners' and Florists' Society	580	The Seedsman's Friend	581
		Business Changes	582
		San Francisco Notes	585
		Greenhouses Building and Projected	590
		Catalogues Received	590

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MONTCLAIR, N. J.

Grand International Chrysanthemum Show in Paris

It is said that all good Americans when they die go to "Pawris," but that Englishmen prefer to see it in the flesh. It was for this purpose that a little party of four members of the National Chrysanthemum Society of London left the English Metropolis on Friday, the 3rd of November last, to be present at the great chrysanthemum show and conference that opened on the following day and which had been organized by the National Horticultural Society of France and the French N. C. S. The site of this show and also that of the International Show held in May last is on the Cours la Reine between the Champs Elysees and the river Seine. In the two large greenhouses that formed the palace of horticulture during the 1900 Universal Exposition the show now under notice was arranged, there being a large covered-in corridor connecting both the greenhouses, thus forming an exhibition hall of vast extent. The entrance gate being near to the Pont des Invalides afforded an excellent approach to the greenhouses, and on a fine day a convenient promenade for the thousands of visitors that pour into the show.

On the present occasion this promenade consists of a central path with side paths easily communicating, the beds between them being filled with great numbers of fruit trees trained in all the many fantastic forms known only to the French gardener. Some fine *aucubas*, *abies*, *eupressus*, *retinospora*, *taxus*, *thuja*, *cedrus* and other conifers in great variety are shown in capital form in groups right and left close to the entrance by Messrs. Moser et fils of Versailles. Messrs. Paillet, Laurent and Gayer also contribute similar lots. Crout et fils, Nomblot, Boucher and Paillet exhibit fruit trees, while on each hand the whole way leading to the entrance to the greenhouse are numerous exhibits of greenhouses, boilers, pottery and the various sundries in horticultural industries.

On getting inside our first impression is one of dazzling color, for as far as the eye can see there are large groups of chrysanthemums in pots and in cut blooms all of which are effectively arranged in geometric beds on the ground edged with green turf, and intersected by paths that lead the visitor all round the show. The first one is from the well known house of Vilmorin Andreux & Co., and this fills the rotunda of the Serre d' Antin; two other groups occupy the centre; two more, a little nearer the main body of the greenhouse; all from the same firm who were awarded the Grand Prize of Honor for their chrysanthemums and a marvellous exhibit of vegetables. The plants are bush trained, standards and other forms and comprise an immense number of varieties mostly unknown to English and American cultivators. Here and there, however, we see varieties in good form that are familiar to us such as Mme. Marie Liger, Wm. Duckham, Mme. Gustave Henry, Phoebeus, F. S. Vallis, N. C. S. Jubilee, Etoile de Lyon, Mme. Ed. Roger, the curious green variety; Wm. Seward, Mrs. Barkley, W. R. Church, etc.

There are altogether over three hundred exhibitors in this great International Show and it therefore follows that only a brief survey of the show in its most salient features is possible. Other plant exhibits come from Messrs. Leveque et fils. M. Aug. Nonin, A. Pecquenard, M. Magne, and M. Cavour, the last named exhibiting many standards grafted with a large number of different varieties of each. M. Nonin had M. Ant. Marmontel, a Japanese of a fine rosy amaranth color, reverse silvery pink; *Satin Rose*, a medium size decorative Japanese, color deep rosy; *Paris 1900*, a fine pure yellow incurred; *Le Peyron*, a compact pure yellow, *Roi d' Italie*, *Naples*, *La Gracieuse* and scores of other fine varieties. M. Pecquenard is a grower of big blooms about three on a plant, fine, massive flowers that want a lot of beating.

Cut blooms of chrysanthemums were finely shown by M. Rosette, M. Momoneja, Messrs. Leveque, Cordonnier et fils, Ondot, Charvet, Pecquenard and many others. Under specially referring to each exhibit we may mention a few of the best blooms which were *Ami Nonin*, a new yellow Japanese; *Miss Ellen Willmot*, a new white; *President Viger*, *Comtesse Henry de Yanville*, *Mlle. Marguerite de Mons*, a monster; *Gloire Poitevine*, not big but a lovely brilliant shade of bright crimson red; *Nathalie Bourseal*, another monster pure white; *Chrysanthemiste Montigny*, *Anne Marie*, *Sapho*, *Calvat's Sun*, *Mme. L. Denz*, *Duchesse d' Orleans*, *W. R. Church*, etc. In this section of course new seedlings figured largely and all the prominent raisers appeared on the scene. Ernest Calvat was easily first with 10 first-class certificates; M. Alfred Chantrier next with very different blooms, 7 certificates; M. Rosain Bouchard, 6; M. A. Nonin, 5; and many others with fewer, the floral committee having a busy time in this department.

Fruit was grandly shown, the second Grand Prize of Honor being awarded to M. Nomblot-Bruneau for his fruit and fruit trees shown in enormous numbers. Messrs. Croux et fils also had a most extensive collection, chiefly apples and pears. M. G. Boucher, M. Paillet, M. Mortheau, M. Ledoux, had similar lots more or less extensive. Grapes were strong. Messrs. Salomon et fils had one of the principal prizes of honor for vines in fruit and grapes in bunches. M. Whir also exhibited and Messrs. A. Cardonnier et fils showed *Cannon Hall* *Muscato*, *Gros Colman*, and *Black Alicante* in fine bunches.

A separate room was allotted to orchids and stove plants; M. Lesueur, M. Regnier, M. Charles Maron and Messrs. A. Truffant et fils had noteworthy collections. In an adjoining room exhibits in the floral art were provided for table decorations, bouquets, etc., which were staged in the daintiest of ways by M. Debric, the famous Parisian florist of the rue royale. Many miscellaneous collections were exhibited, carnations, lily of the valley, primulas, cyclamen, begonia *Gloire de Lorraine*. Messrs.

Vallerand freres had a fine show of single flowered begonias of large size. M. Geo. Truffant showed some results of using his new manure *Biogine* in the culture of chrysanthemums. Annexed to the show was an art gallery in which many pictures of fruit and flowers in oil and water colors were staged.

The jury were invited to a banquet presided over by the Minister of Agriculture supported by M. Viger and the officials of the society. M. Viger proposed the toast, that of M. Loubet, president of the republic, coming first. M. Loubet visited the show in the morning and expressed his admiration of the many beautiful exhibits. Other toasts followed and were responded to by M. Maxime de la Rocheterie, the president of the French N. C. S.; Mr. Harman Payne, foreign secretary of the English N. C. S.; Baron Solemacher of Ander-nache, and M. Lucien Chaire of the *Moniteur Horticole*.

In the afternoon the first meeting of the conference was held and various papers were read. A presentation was also made to M. Viger of a bronze work of art from the French N. C. S. In the evening the National Horticultural Society of France entertained the jury at a reception and concert in the hall of the society.

Harman Payne

Hints on Boilers and Heating

In heating greenhouses the location of the boilers depends principally on the lay of the ground and direction of the compass. Referring especially to large ranges of glass where houses run north and south the ground being practically level, boilers should either be located close to the north end of range near centre or on the west side near centre and a proper distance from the westerly house; where houses run east and west on level ground, the boilers should be placed on the north side near the centre. On ground sloping towards the south, houses running east and west, it is often advisable to locate the boilers on the south side of range near the centre leaving a space between the cellar and southerly house, so in case a building is erected over the cellar it will not shade the houses, the width of the space regulated according to the height of the structures. The cellar should be constructed as near water-proof as possible without too much outlay and provision made for draining the interior. Place the boilers on a foundation projecting at least two inches above the cellar floor, as this method will aid in keeping the ash pits dry. Locate the coal bin if possible in front of the boilers leaving a sufficient space between to clean the tubes and ash pits; leave space around and between the boilers so that parts can be repaired and replaced readily, and valves operated. It seems to be common practice to crowd the rear of boilers against the cellar wall. This should be avoided, especially in laying out a new plant; there should be a space of at least two feet. All boilers in

the same cellar should be connected to the same main, and the connections valved, and the valves locked open when boilers are in order. This can be accomplished with a chain and padlock on each valve. In case of accident to any boiler, draw the fire and close the valves on the one affected. One man should attend to all valves and keep the keys to prevent accidents. After repairs are made open the valves before starting the fire. Use gate valves for these connections giving the full opening of the pipe so as not to check the circulation.

X.

The Foliage Question

Editor of *HORTICULTURE*:—Noting your remarks on the lack of foliage on many of the later introductions of chrysanthemums and your citation of Mrs. J. Jones as the ideal variety in this respect and as a model all-round chrysanthemum, I wish to express myself as agreeing with you in the main, though it seems to the writer that the matter of foliage is a trifle over-done in this variety and its sports, at least as they come from the hands of the majority of growers in this country, though Mr. Montgomery and a few other specialists are able to show the flower and foliage in beautiful proportion. In fully 80 per cent. of the displays of the Jerome Jones family the bloom looks very small in comparison with the voluminous leafage, which we must all acknowledge as the most beautiful in form, texture and glossy finish of any known variety.

Mr. Herrington, in his interesting remarks, gently chides the editor for his criticism of the Australian sorts in the matter of foliage, though it must be confessed that very few of them approach Mrs. Jerome Jones in this fine quality, the best of them lacking the gloss and substance, even where the leafage is otherwise good, while many of them show so prominently the defects of the Carnot family foliage, that if it were not for the redeeming points of magnificent size, form and color, they certainly would lose out on leafage. This fact is strikingly illustrated in the Wells-Pocket set of the present year, where the majority show the limp, drooping appearance of the Carnot type, which is always interesting to trace, if not so delightful—to set up; our English-Australian friends are breeding to size, and admirably they do it, but give the raisers time and they will place before the public a perfectly balanced type, good stem, fine foliage and magnificent bloom.

We owe a great debt of gratitude to our Australian friends for the large, handsome, showy flowers which they have produced; they are grand exhibition sorts, but the decorator wants a dark, crisp, closely set, substantial foliage, to make perfect his vase of blooms such as is found in Ivory, Bonnaffon, Appleton, Chadwick and Jones.

The editor has rendered good service in calling attention of chrysanthemum specialists to the good basic qualities of our fine old favorite from Boston.

E. F. Hill,

British Horticulture

THE CHRYSANTHEMUM SEASON

November is the month for chrysanthemum shows in this country. Commencing with a very fine exhibition held by the National Society at the Crystal Palace, others have been held at Birmingham, York, Liverpool, Norwich and other centres. Some pessimists have contended that this taste for chrysanthemums was only a passing craze and that in time the shows would experience a "slump," but each season the interest awakened is as keen as ever. It is not difficult to discover the cause of this perennial popularity. The chrysanthemum is an attractive flower of manifold charms, and it comes at a season when blossom is comparatively scarce, while the ease with which it can be cultivated is also an important factor. The "Autumn Queen" also lends itself to cultivation. In some branches of horticulture good results can be obtained without any special cultivation being resorted to, but when a grower stages a handsome array of exhibition blooms it is seen that the art of the cultivator has been exercised to the fullest extent. A remarkable advance has been made in recent years, although there is a feeling in some quarters that the tendency to produce excessively large blooms is being carried too far. As regards the cultivation of the bloom for market, this has been greatly overdone in the last few years, and before the frost set in Covent Garden was flooded with outdoor stuff.

WINTER CARNATIONS

Variety has been lent to the chrysanthemum shows by the superb displays of carnations, of which many of the leading nurseries make a specialty. The introduction of the American varieties, which are steadily increasing in favor, has given a fillip to this branch of horticulture, and the market growers have taken up in earnest the most suitable sorts. A proposal lately made by Mr. Hayward Matthias, a leading expert, of Medstead, Hants, for the holding of a winter show of carnations is likely to meet with considerable support. The National Carnation Society already hold each year a successful show of the summer varieties, and it would not be very difficult to follow the example of the National Rose Society in arranging a second exhibition for the later sorts. Mr. S. Mortimer, of Rowledge, Farnham, Surrey, at the chrysanthemum show held in the Crystal Palace early in November demonstrated the good effects which can be obtained from showing on long stems such varieties of carnations as Nelson Fisher, Harlowarden, The Belle, Enchantress, Adonis and Fair Maid, and this display served to indicate the possibilities the winter varieties of this subject possess for making an attractive exhibition at this season. It is possible that next year you will see a winter exhibition of carnations either arranged by the Horticulture Society or by the National Carnation Society. The variety Enchantress, which is usually to be seen in show collections, is in favor among florists for bouquet work. Mr. M. Garcia, of Covent Garden, who was commissioned to make a bouquet for presentation to Queen Alexandra at

the opening of Kingsway, a new London thoroughfare, used Enchantress and lilies of the valley, tied with appropriate ribbons.

A FRUIT TREE NURSERY

The other day I was able to see the methods of conducting a large fruit tree nursery belonging to Mr. J. W. Todman, at Borough Green, Kent. The nursery is situated in the heart of one of the principal fruit growing districts in England. The different varieties of trees are planted in long rows of from 500 to 750, so that it is possible to see at a glance any particular sort the purchaser requires. The chief varieties of apples cultivated are Newton Wonder, Wellington, Bramley's Seedling, Lane's Prince Albert, King of Pippins, Warner's King, Beauty of Bath, Lord Derby, Worcester Pearmain, Cox's Orange Pippin, Peasgood's Nonsuch and Allington Pippin. The demand for trees now runs chiefly on those grown upon the Paradise stock. The Canadian variety, Royal Snow, is cultivated but this has not become very much in demand. The plums in favor are Monarch, Czar, Victoria, Pond's Seedling, Princess of Wales, and Rivers, whilst the pears comprise Williams, Doyenne du Comice, Jargonelle, Marie Louise, Beurre Diel, Beurre Superfine, Fertility, and Pitmaston Duchesse. I inquired from Mr. Todman whether his business suffered from foreign competition. He replied: "The foreign nurserymen send their circulars all around the fruit growing districts. Their stock is not so hardy as the English. If we have a very mild winter it is all right, but if the climate is severe the trees will not stand our winter." I also learned that this has been one of the best seasons for growth, and there was an absence of blight and other diseases, the trees being in a very healthy and vigorous condition. Each autumn there is a thinning out process, when an auction sale takes place.

WHAT'S IN A NAME?

The choice of a suitable name for fruit or flowers is often a difficult matter with the raisers, many of whom ring the changes on the popular heroes of the hour, after exhausting the list of classical notabilities. There is no doubt that the selection of an apt title has an important bearing in popularizing a new introduction, and the terser the better. It is a pity that raisers and introducers do not stick to some short title, instead of puzzling purchasers with one which exhausts the alphabet several times over. In a rose catalogue the following names sufficient to "stagger humanity" appear: S. M. de Rodocanachi, Souvenir de S. A. Prince, Grossherzog von Oldenburg, Souvenir de Marie Zozaya and M^{me}. B. de Bary de Zahony. Life is too short for these tongue-twisters. It is too much to inflict these lumbering appellations on the public, and to further add to the difficulties of our gardeners—good fellows in their way, but very often, most ingenious in their distortions of names. An amusing list could be compiled of the remarkable changes some of the names of plants have undergone at the hands of the gardeners of the old school who have not the advantages now possessed by the younger generation in acquiring a knowledge of scientific horticulture. The foreign nurserymen are the worst offenders in the selection of these outlandish descriptions, but there is no reason why their British colleagues should follow their bad example.

W. H. Adsett.

London, England, Nov. 10, '05.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, *Editor and Manager.*

Sympathy Our pitying sympathy goes forth to those two stricken households where the joyousness of the Thanksgiving time has been turned into sorrow and dismay by the terrible railroad disaster of last Sunday at Lincoln, Mass.

A coming event Next week HORTICULTURE will celebrate its first anniversary. It will put on its best clothes and receive the kind attentions of its friends with becoming appreciation. Would you like to extend your congratulations in a practical and useful form? Nothing you can do will please or benefit the youngster so much as a contract for the next twelve months' advertising or a few subscription renewals. And, in return, HORTICULTURE will work hard in your behalf all the coming year.

Room for improvement Reports of flower-show awards as usually sent out are disappointingly incomplete. The announcement that John Doe received first prize for the best specimen ornamental foliage plant or the best five chrysanthemum introductions of the current year is, of course, pleasing to Mr. Doe, but there its usefulness ends. If the secretary or other official would furnish, as a part of the report, the name of the winning varieties and, when these are novelties, a brief description of them, he would be doing a welcome service. Here and there we find one who does this, but he is the exception.

Preparing the Christmas plant The plant grower who would build up his industry as a great and successful holiday enterprise will see to it that everything possible is done to harden off and inure his stock so that when it leaves his hands it will be duly prepared to withstand for a reasonable length of time the hard fate from which there is no escape for the Christmas plant. Next in importance to the growing of a good plant must be placed this process. No one thing has retarded the popularity of

the greenhouse-grown plant so much as the practice of direct removal from the sweltering atmosphere of a stove-house to the conditions prevailing in the average dwelling house.

An unworthy sentiment

We do not believe that the utterly selfish and uncalled-for sentiments expressed in a recent issue of the Franklin Falls Journal represent the feelings of anybody in New Hampshire outside of the office of that paper. The suggestion that residents of other States should send a subscription of one hundred dollars apiece to back up their appeal to the State government on behalf of the White Mountain forests or otherwise keep quiet gives evidence of a spirit far from commendable. The mountain summer resorts of New Hampshire are among the best assets of the State, to which the summer visitors contribute millions of dollars annually.

The tree warden

The office of town tree warden is now provided for in many States. This is a position of great importance and, if filled by the right man, will soon bring about a condition of arboreal beauty that will add greatly to the attractiveness and health of the town. No man who has not given evidence of a thorough knowledge of selecting, planting, thinning, trimming, and feeding trees should ever be given the office of tree warden; the opportunities for mischief in the hands of the mountebank are too great and the results of ignorant treatment too far reaching. In many towns it is practically a labor of love, affection for the trees—not the salary—being the only incentive. The man who can fill such a position intelligently and does it with this noble purpose is an honor to the community and a benefactor to his fellow men.

Thanksgiving Day

As we go to press, on the eve of Thanksgiving Day, we glance backward over the year that has passed since we took up the editorial pen for HORTICULTURE and find much to be grateful for. With a host of good friends already acquired in every section of our great country, with the happy knowledge that its usefulness to the horticultural fraternity is universally recognized and a prosperous future assured, HORTICULTURE finds in its first Thanksgiving Day abundant cause for thankfulness. In all departments of the horticultural and allied professions with which we have been in touch we believe the year to have been fairly prosperous and that most of those who read these lines can unite with us in jubilant enjoyment of the grand old New England home festival. Apart from that material welfare which stands undoubtedly uppermost with most of us when reviewing the blessings of the year, is the agreeable consciousness that our avocation ranks among the most beneficent of human undertakings and in this we have reason for perennial thankfulness, for

"He who blesses most is blest;
And God and man shall own his worth,
Who toils to leave as his bequest,
An added beauty to the earth."

AFTER ADJOURNMENT.

We are pleased to learn that the winter famine in California is averted. From end to end of the State a copious rainfall has come this week, and horticulturists and all others are well pleased that the 195 days of rainless weather are ended.

We read in a contemporary a statement made in California by a man from New York, to the effect that he could accomplish something really worth while in New York, if he only had some of the California climate. Fortunately for New York, she has had no lack of men who managed to do things, on the climate which nature provided, and it is not likely that any New Yorker will lose much sleep over the above-quoted twaddle.

The Boston Transcript has discovered a man at Addison, Vt., who tried a novel way of raising potatoes this year and met with success. "He placed a bushel of potatoes on the ground in the spring, covered them over with two feet of hay and left them alone. This fall he removed the hay and gathered twelve bushels of big potatoes." We are not in the least surprised at this man, but we are just a little surprised at the Transcript.

STILL UNDER TRIAL.

Editor of HORTICULTURE:

Dear Sir:—Will you kindly correct an inaccuracy in your issue of Oct. 28, where I am quoted as saying: "Of recent introductions, none are more satisfactory to date than John E. Haines, which proves to be a great bloomer and a fine scarlet." The writer evidently misunderstood my remarks on this occasion.

What I stated at that time was that, "At the last spring exhibition of the Massachusetts Horticultural Society, the John C. Haines carnation made a very fine showing and, as seen there, it certainly seemed a promising variety."

Again, this variety had not then been "introduced." Mr. Haines had kindly sent me a batch for trial last spring. Owing to the very dry and unfavorable season, all our carnations suffered severely in the field, the "Haines" among the other sorts, and although housed early in July, they had not as yet come up to our expectations, but hoped they might do so later.

This does not by any means cast any reflection on the merits of Mr. Haines' carnation, any more than on Plancee and others that suffered in like manner. I only regret that circumstances beyond my control have placed me in a position where I cannot at this time give an indorsement that would have been a pleasure, indeed.

PETER FISHER.

Ellis, Mass., Nov. 27, 1905.

The new rose, the Miss Kate Moulton, grown by John Monson, of the Minneapolis Floral Co., which attracted considerable attention at the Chicago Flower Show, is the observed of observers in the Twin Cities. Its parentage is the La France and the Madame Testout; it is a pale pink with the petals rolling gracefully away from the centre. The rose grows to a good size, and the foliage being a strong and perfect green.

PERSONAL.

Joseph Mendoza has resigned the position of gardener on the Mott Estate, New London, Conn., where he has been for 18 years.

Mr. Frank H. Robinson of Chelsea, Mass., and Miss Gladys White were married on November 15th, and started on a trip to New York and Montreal.

Prof. Sargent of the Arnold Arboretum and his son sailed for Chili November 25 for a trip of several months. They will make a study of the trees of that country.

William S. Grassie, head gardener for F. S. Moseley, Newburyport, Mass., was made happy last week by the arrival of Miss Edith Johnson from Greenlaw, Scotland, who, it is said, came to this country to become his wife.

Percy F. Williams has just gone into the employ of the Metropolitan Park Commission, and is on the reservation at Revere. Mr. Williams is a graduate of the landscape gardening course at the Massachusetts Agricultural College at Amherst.

Among the most seriously injured victims of the railroad wreck at Lincoln, Mass., last Sunday evening were Mr. and Mrs. Albert Batley of Maynard and Mrs. Joseph Fuller of Leominster. Mrs. Fuller and her daughter had been spending the day at W. W. Edgar's in Waverley. The daughter went home by trolley car and Mrs. Fuller chose the ill-fated train.

NEWS NOTES.

Treasurer C. E. Richardson of the Massachusetts Horticultural Society will act as custodian and receiver of a fund for the purpose of erecting a monument to the memory of Ephraim Bull, the originator and introducer of the Concord grape.

Among the prize winners at the flower show in Shreveport, La., which was held last week, we notice the names of C. W. Eichling, whose artistic arrangement of yellow chrysanthemums and maiden-hair fern won first for table decoration, Charles Ebele and J. A. Newsham.

Prof. E. J. Wickson, dean of the college of agriculture of the University of California, returned this week with his fellow workers from a tour of South California. They examined various sites that have been offered for a State pathological laboratory. The legislature has appropriated \$20,000 for this building, with the provision that it must be located in Southern California, where studies will be made of citrus fruit diseases and of fruit pests.

Mayor James P. Baxter of Portland, Me., has recently issued a pamphlet of sixteen pages in regard to the park system of that city. He suggests connecting the Eastern and Western promenades by a boulevard 100 feet wide, passing through the beautiful park known as Deering's Oaks. Plans embodying this scheme have already been drawn up by Olmsted Bros. of Brookline, Mass., and as the greater part of the land is already available, it would seem to be only a question of time when the plan should be consummated.

OUT OF THE BEAN POD.

It is very gratifying to see the same officers of the Gardeners' and Florists' Club of Boston, elected to their present positions. It shows clearly that the members place implicit confidence in them, and have given honor where honor is due. The membership of this club has increased wonderfully, and since the present officers have taken command there has been a regular rush for membership. These gentlemen have indeed raised the club from one of the weakest to what promises to be the strongest in this country. Hats off, gentlemen, to Captain Wheeler and his mates, who have guided us over the rocky places, and hope that the next voyage will be as pleasant and fruitful as the one just nearing the end. Banquets, I hear, are to be the order of things shortly. I hope the gentlemen in charge will see to it that there are to be no high priced ones. I attended a dinner of the Florists' Club some sixteen years ago. The price was three dollars per plate. It is all right for the man with a roll to go to such gatherings, but what about the members who cannot afford to pay for such a supper? The above price means, to many members, about two days' pay. Don't have the price prohibitive; make it so that every one will have a chance to go and enjoy himself without having to forgo many things necessary for himself and family. Cut out as much of the wines as possible, and lower the price so as to give your workmen a chance to enjoy the banquet or dinner as well as yourself. There will be clearer brains the next morning, and a larger assemblage to enjoy the good things and hear the orators of the evening.

ROBERT T. MCGORUM.

BEGONIA PROPAGATION.

J. A. Peterson who has been for a number of years one of the largest and most successful growers of Begonia Glorie de Lorraine prefers leaf propagation to cuttings and follows that method exclusively. The plants thus produced start off with a number of strong shoots, which is a great advantage. Specimens one year old from the leaf are now in six-inch pots, over a foot through, and a foot above the pot and weighted down with bloom. A new one which Mr. Peterson is trying is Veitch's Agathe. It much resembles Lorraine and would pass for it, probably, with most people. The petals in this novelty are rather narrower and more pointed than in Lorraine and the foliage is also more pointed and regular in outline.

Mr. Peterson is following the old method used in Begonia Rex propagation, in increasing the stock of the new Triumph del Est, that is, cutting the leaf into sections with a piece of rib in each and finds this the most satisfactory plan thus far.

W. R. Smith was in Philadelphia this week and his visit furnished an opportunity to John Shellem to name his new American seedling rose "William R. Smith," in honor of this veteran practical horticulturist. It is a cross between Isabella Sprunt and Maman Corchet.

NEWS OF THE CLUBS AND SOCIETIES

SEATTLE FLORISTS' ASSOCIATION.

The chrysanthemum show held by the Seattle Florists' Association, was an unqualified success artistically and financially. The flowers were up to the eastern standard and while we had weeping skies two of the days it made very little difference in the attendance. The thermometer stood about 55 degrees, making it easy for the plants to be handled from the greenhouses. The competition was keen in some classes, the only division we were short on being the chrysanthemum plant classes, but in cut flowers the classes were well filled. In the competition for the trophies the \$50.00 silver cup went to the N. Harrington Co. for the best vase of 100 chrysanthemum blooms, with a splendid vase of yellow Eaton with autumn leaves of the same shade and gradually toned down at the base with bronze chrysanthemums and the leaves of the Oregon grape. The \$50.00 gold medal for the best vase of carnations was won by the same firm with an artistic vase of Enchantress, as was also the cut-glass vase valued at \$50.00 for the best vase of roses, with Richmond and Sunrise roses.

The mantels were judged on Thursday and on the five entries the lady judges had some close judging to do. The first prize went to the Woodland Park Floral Co. Friday was society day, and the fine entries for tables were of course the centre of attraction, first prize going to Mrs. Lena W. McCoy, with a centre piece of Golden Gate roses, and orchids for favors. Other exhibitors winning substantial prizes in many classes were Washington Floral Co., Pacific Seed & Floral Co., Seattle Floral Co., C. Malmo, Jacob Umlauf.

The Florists' Association are well satisfied at the outcome of the show and it has been definitely decided to make it an annual event. At a meeting of the club on Saturday night at the flower show, Mr. C. Malmo was presented with a gold-headed cane in appreciation of his work in connection with the management of all the details which had made the show a success.

A. BALMER, Sec.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

So many of our members were attending flower shows, judging, sight-seeing or exhibiting on our regular meeting date that it was only last Wednesday evening we could get together. Following is the list of officers nominated for the coming year: President, J. Heeremans; vice-president, Robt. M. Schultze; secretary, E. Reagan; treasurer, Wm. Charlton. Mr. Charlton has filled his office for ten consecutive years. Evidently he is the right man in the right place. Election takes place at the next meeting. Impression of different flower shows of 1905 will be given by members who visited them.

E. R.



JASON S. BAILEY'S GROUP AT BOSTON EXHIBITION.

PITTSBURG AND ALLEGHENY FLORISTS' AND GARDENERS' CLUB.

The third smoker of this wide-awake society is announced for Tuesday evening, December 5, at 422 Sixth avenue, Pittsburgh. The prospectus shows the hand of an adept in prospectus making. Members are informed that cards of admission are sent to all whose dues are paid. "Nothing doing" without card." There'll be a good time and we strongly recommend that all delinquents pay up and go. They will get their money's worth if the prospectus is carried out as announced.

UTICA FLORISTS' CLUB.

This club held an exhibition on the evening of Nov. 24, at which some of the notable displays were carnations My Maryland and Jessica, from H. Weber & Sons Co.; Robert Craig, from Cottage Gardens; Victory, from Guttman & Weber; John E. Haines, from John E. Haines, and white Enchantress and variegated Enchantress from F. R. Fierston Co.

After discussing the exhibits the members enjoyed a banquet.

AMERICAN CARNATION SOCIETY. Special Premiums.

A. H. Hews & Co., Cambridge, Mass.—Offer a silver cup, value \$25, for four varieties of carnations, 25 blooms to a vase, either seedlings or named sorts and no restrictions as to color.

Thomas F. Galvin, Boston, Mass.—Offers a silver cup, value \$25, for eight varieties of carnations, 25 blooms to a vase.

W. W. Rawson Seed Co., Boston, Mass.—Offer a silver cup, value \$25.00, for three varieties of carnations, fifty blooms to a vase.

R. & J. Farquhar & Co., Boston, Mass.—Offer a silver cup, value \$25.00

for the best twelve blooms of a carnation, one variety. (Open to private gardeners only.)

Schlegel & Fottler Seed Co., Boston, Mass.—Offer \$15.00 cash for the best vase of dark pink carnations, 100 blooms to the vase.

Wm. Nicholson, Framingham, Mass.—Offers \$10.00 cash for the best 50 bloom of a dark pink carnation.

Patten & Co., Tewksbury, Mass.—Offer \$10.00 cash for the best 100 blooms of a variegated carnation. (Mrs. M. A. Patten type.)

Premium List.—This will be ready the first week in January with all premiums, instructions, and entry blanks, everything necessary to intending exhibitors for the show at Boston, Mass., Jan. 24th, and 25th, 1906. Write to the secretary for a copy.

A. M. HERR, Sec.

CHRYSAETHMUM SOCIETY OF AMERICA.

Work of the Committees.

Cincinnati, O., Nov. 18, 1905. Seedlings No. 36-1-62, white, waxy texture, incurved, shown by Nathan Smith & Son, Adrian, Mich., scored 90 points Commercial sale.

FRED H. LEMON, Secy.

NOTES OF THE CLUBS AND SOCIETIES.

Thomas W. Lawson was elected president of the Marshfield Agricultural and Horticultural Society on November 20.

The National Nut Growers' Association will hold their fourth annual convention at Dallas, Texas, in the auditorium of the Commercial Club, on December 7, 8, 9.

At the recent exhibition of the Indiana Festival Association the question of inviting the C. S. A. to meet in Indianapolis next year was broached.

VICTORY

THE BEST SCARLET CARNATION—Being remarkably prolific

Should such an invitation be extended the association would find it necessary to break over its recently established rule to hold a show every other year.

It has been suggested that as fully three-fourths of the patrons of the recent chrysanthemum show of the New London County Horticultural Society at New London, Conn., were from Norwich, future exhibitions might be held more profitably in that city. Members of the society hope that during the winter some means of arousing a more general interest in public exhibitions may be devised.

At the recent exhibition of the Massachusetts Horticultural Society silver medals were awarded to R. Vincent Jr., & Son, for display of cut sprays of 100 varieties of hardy chrysanthemums, and to R. & J. Farquhar & Co., for display of ornamental evergreens.

First class certificates of merit: to M. A. Patten for Pink Patten carnation.

Honorable mention: to H. A. Jahn for seedling carnation; Peirce farm seedling carnation, Marion Peirce; G. B. Anderson, carnation Enchantress; Backer & Co., for pink sport from carnation Enchantress; Backer & Co., for seedling yellow carnation No. 14; H. A. Stevens, for Pink Lawson.

SOME RICHMOND ROSES.

The subject of our frontispiece is one of the many promising productions in that Mecca of the rose hybridizer—the seedling house of the E. G. Hill Company at Richmond, Ind. The variety illustrated is known thus far as A1, a temporary name, but not an inapt one, for the plant and flower possess all the good points, apparently. It is the result of a seedling crossed with American Beauty. In style, color and shape the blooms approach those of the H. P. "Rodocanachi." The fragrance is exquisite, and the persistence of the blooms is remarkable, the petals opening with the regularity of a dahlia and hanging on with great persistence.

Rose hybridization as followed up by Mr. Hill for many years is a pastime that calls for the exercise of patience in wholesale bulk, and hope is the principal diet as a rule, until a Richmond is evolved, and then things look better. But whatever the successful rose hybridist manages to get out of his labors is well earned, and Mr. Hill is engaged in a service to American floriculture that cannot be over-estimated, and is not fully appreciated as yet. He is constantly on the alert to produce something better than has been done heretofore. Varieties having qualities regarded as valuable are pressed into service as parents, every cross being made with a definite end in view and no haphazard experimenting being indulged in.

Breeding for varieties that produce tall, strong shoots from the bottom of the plant is one of Mr. Hill's cardinal principles, and next to this comes productiveness.

Seedlings of successive generations, bred back over and over again on original ancestry, have been selected with patient persistence, and out of many thousands of trials has come the interesting array of novelties now blooming in the seedling house. All are from May propagation, and stems two to three feet tall are not uncommon. No. 29 is a crimson, deeper than Richmond, velvety in texture, and full double. No. 28 is still more double. No. 598 is a Mermel seedling of a rare and pleasing pink. One has been deemed worthy of a much-prized name; it is a Beauty seedling similar in color to the parent, but a much fuller and better formed flower, and it has been named John F. Lemon. No. 49 is a crimson-scarlet, with petals that reflex and roll back until the flower is like a ball. Nos. 561 and 562 are enormous, creamy tinted flowers, and 566 recalls old Souv. de Malmalson, but carries much longer petals, of a shining porcelain texture. Among the lot are many that give promise of being ideal pot roses and summer bedders.

In the regular rose houses Pernet's new salmon pink rose, Joe Hill, is showing up well, and a good call for this variety has already been developed in the Chicago market, where E. H. Hunt dispenses it with polished discretion among the swell buyers.

PHILADELPHIA NOTES.

"The sweetest melodies are those that are by distance made more sweet." Whether or not Wordsworth had special reference to John Birnie's favorite instrument, the bagpipe, his lines are emphatically applicable to it, and one can imagine what will happen at the Pure Food Bazaar (which takes place at Horticultural Hall, January 22 and 23), when one exhibitor is to have six pipers on the stage at once. We are told William Graham has something to do with this fearsome proposition.

The lecture of Dr. Roberts on the sanitary influence of flowers will be delivered at the December meeting of the Florists' Club, and the Pennsylvania Horticultural Society has joined hands and given the upper hall to accommodate the larger crowd. Bring your friends.

It's a poor paper that can't afford to tell the truth once in a while. That HORTICULTURE had some courage in speaking out about the new chrysanthemums is evidenced by the rather warm reply of Mr. Herrington. But HORTICULTURE manages to get back at him in the same issue in pretty

good shape. Speak up, gentlemen; don't be afraid. Hew to the line; let the chips fall where they may. What we want is intelligent criticism by intelligent men instead of ream after ream of foolishness.

Holly has already made its appearance in the Philadelphia market. It seems to be very well berried, and good, clean foliage, so far.

The dates for the five team league bowling tournament of the Philadelphia Florists' Club have been arranged as follows:

Nov. 27, Eimerman vs. Dunham; Dec. 1, Connor vs. Moore; Dec. 4, Westcott vs. Eimerman; Dec. 6, Dunham vs. Moore; Dec. 8, Connor vs. Westcott; Dec. 11, Eimerman vs. Moore; Dec. 13, Dunham vs. Connor; Dec. 15, Moore vs. Westcott; Dec. 18, Eimerman vs. Connor; Dec. 20, Dunham vs. Westcott.

The personnel of the Eimerman and Dunham teams were announced last week. The other three teams are as follows. Connor, Graham, Hanna, Huttlock, Gray; Moore, Robertson, Adelberger, Kift, Donoghue; Westcott, Yates, Watson, Anderson, Campbell; the first named being the captains of their respective teams.

THE SEEDMAN'S FRIEND.

A seed store without a set of Heller's Mice-proof Seed Cases will soon be as rare as it is primitive and incomplete. Frank S. Platt & Co., of New Haven, Conn., are moving into their new store on State St., which will be the finest equipped seed store in Connecticut; they have installed a complete system of Heller's cases. A similar system has been put in by Vaughan's Seed Store, Chicago, Ill., in their vegetable seed department.

anetti Rose Stocks

A selected grade for Florists' use. Uniform
a 7c. Well rooted, Sample free.

THOMAS NEEHAN & SONS, Inc.
Nurseryman, Box C, Dreshertown, Pa.

Daisies, Daisies and Daisies

We are headquarters for MARGUERITES. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf miner or other insect life. Prices on application. Flowers in flower until October 1st to July 1st.

PLECHTER & AUBREY
Stall 1, Boston Flower Market, Park St.

SNAP DRAGON: Queen of the North.
Strong plants from 2½ in. \$2.00 per 100
ZVOLANEX'S KMAS BLOOMING SWEETPEAS.
3 in. pots, 3 pl. sets in pot \$3.00 per 100
GERANIUMS: S. A. Nutt and LeFavorite
2½ in. \$2.25
These are shapely little plants, were early struck, and been twice set over. Cash or c.o.d.

H. M. TOTMAN, RANDOLPH, VT.

Bells! Bells!! Bells!!!

We quote the following prices on

Christmas Bells

	Per Dozen		Per Dozen
16 inch Bells	\$9.00	9 inch Bells	.75 to \$1.12½
14 inch Bells	4.50	8 inch Bells	.90
12 inch Bells	2.25	5 inch Bells	.45

GUARANTEED HOLLY

Same price, same quality, as last year. Single case \$5.00; two or more at \$4.50; five or more at \$4.00.

Best American Mistletoe, bright and well-berried. Price reduced from 50c. to 35c. per bunch.

Laurel Roping

First Class Stock
6 cents per yard

Laurel Wreaths

Regular 12 in. Size
\$2.00 per dozen

N. F. McCarthy & Co.

Flowers and Florists' Supplies

84 Hawley Street. BOSTON

BUSINESS CHANGES.

The Holmes greenhouses in Shelton, Conn., have been purchased by W. L. Smith.

J. C. Butler & Son of Niagara Falls, N. Y., have purchased the greenhouse of J. C. Pultz.

H. R. Mitchell & Son of Waterville, Me., have opened a branch store on Main street.

Anton Felke has recently gone into business in Wilmette, Ill., and is now stocking his houses.

Touseth Bros., wholesale dealers at Mt. Tabor, have opened a retail store at Portland, Ore.

The long established Shanahan Floral Depot, San Francisco, has been purchased by Benj. L. Tarbox.

The "Flower Market," a retail establishment in New York, at 43d

street, near Fifth avenue, has gone out of business.

L. C. Pfunder has opened a florist store at 145 Sixth street, Portland, Ore., of which his daughters will have charge.

L. Mosco, the Chicago man who opened in the cut flower commission business at San Francisco several weeks ago, has closed his store.

Charles E. Foss, florist, of Buffalo, recently went into bankruptcy with liabilities amounting to about \$8,500. Donald Bain has been appointed receiver.

Brooks Carson has purchased the five greenhouses of A. D. Shepard of The Gables, Scotch Plains, and will remove them to his place in North Plainfield, N. J.

J. W. Howard has closed his branch

at Charlestown, Mass., and has transferred Ernest Whitney from that store to the new one he has just opened in Brookline.

Abraham & Strauss of Brooklyn, N. Y., have added a florist department to their establishment. It is equipped with all the latest appliances for handling stock satisfactorily.

R. W. Barrow & Co., of Meriden, Conn., have purchased the greenhouses and property on New street formerly occupied by Hall & Batten, and will run them in conjunction with their present place on Union street.

M. J. Wragg has purchased the Midland Nursery Company's property at Twenty-eighth street and Grand avenue, Des Moines, Ia., and it will be consolidated with his M. J. Wragg Nursery Company.

"WE MAKE GOOD"

On all orders for Holiday supplies. Don't wait until the last minute. Order now and have the goods by you in ample time.

Plant Baskets a splendid assortment for Christmas displays.

Chip Hampers an up-to-date receptacle for long-stemmed flowers.

Uncle Theodore the new grass-growing heads. An attractive window novelty and a great seller. Creates an instant demand wherever shown.

Christmas Bells and Red Crepe Folding Bells The rage for these is stronger than ever this season. All sizes, 6 inches to 18 inches.

Waterproof Crepe Paper This is an indispensable covering for pot plants. We can supply same in all shades, also **Pleated Crepe** in all colors and

Fancy Waterproof Crepe Something entirely new and very attractive.

Write us for prices on anything you want. Send for our descriptive Price List.

H. BAYERSDORFER & CO.,

56 North 4th St., Philadelphia

Lorraine and Turnford Hall

BEGONIAS

6 in. Pans, \$1.50 and \$2.00 each

Immediate and future delivery

SAMUEL S. PENNOCK

The WHOLESALE
FLORIST OF

Philadelphia

1612-1618 Ludlow St.

Specialist in Novelties

This week: White Sweet Peas, Gardenias, white Violets, Cattleyas, Oncidiums, Chatenay, Killarney and Richmond roses.

BOXWOOD SPRAYS

We can supply this article in quantity

DWARF EVERGREENS

for filling window boxes, etc. Good variety at reasonable prices.

CEDAR BARK

in demand for covering window boxes, rustic interiors, etc. 50c. per bundle.

SAMUEL S. PENNOCK,

The Wholesale Florist of
PHILADELPHIA.Store Closes
at 8 P. M.

1612-1618 Ludlow St.

ETROIT

John Breitmeyer's
SonsCor. MIAMI and GRATIOT AVES.
DETROIT, MICH.Artistic Designs
High Grade Cut Blooms

We cover all Michigan points and good sections of Ohio, Indiana and Canada.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

Geo. H. Cooke
FLORISTConnecticut Avenue and L Street
WASHINGTON, D. C.Florists Out of
Town

Taking orders for delivery in New York City or Vicinity can have them filled in best manner and specially delivered by

Thomas Young, Jr.

41 W. 28th Street, New York
In writing advertisers, mention Horticulture

ALEX. McCONNELL

546 Fifth Ave., New York City

Telegraphic orders forwarded to any part of the United States, Canada, and all principal cities of Europe. Orders transferred or entrusted by the trade to our selection for delivery on steamships or elsewhere receive special attention.

Telephone Calls, 340 and 341 38th St.
Cable Address, ALEXCONNELL

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

Blackstone Florist
14th and H Sts. N.W.
Washington, D.C.

Notice to all Florists in the U. S. not represented in Washington: You are hereby advised that you can solicit orders from your customers for Floral greetings from the desks of their favorite Congressmen at the convening of Congress and by having us execute them for you guarantee them perfect satisfaction. Z. D. BLACKSTONE.

A. Gude & Bro.

FLORISTS

1214 F ST., WASHINGTON, D. C.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2. Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. McCARTHY, Manager
66 Pearl Street, BOSTON, MASS.WILLIAM J. BOAS & CO.
MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia

Write for Price List and Samples

In writing advertisers, mention Horticulture

THE PRETTIEST CHRISTMAS

BELL FOR LEAST MONEY

Do you want the greatest novelty in Christmas wreathing, Green Statics.

J. STERN & CO.

1928 G'RMANTOWN AVENUE, PHILADELPHIA.

H. BAYERSDORFER & CO

50-56 North 4th Street

PHILADELPHIA, PA.

FLORISTS' SUPPLIES

BEST LINE IN THE COUNTRY

REED & KELLER

122 West 25th St., New York

Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in

Glassware Decorative Greens and Florists' Requisites.

FRED C. WEBER
FLORIST4326-28 ST. LOUIS, MO.
OLIVE STREET Established 1873
Long Distance Phone Bell Lindell 676

Maid, Brides, Beauties

THE LEO NIESSEN CO.

WHOLESALE FLORISTS

1217 Arch St., - PHILADELPHIA

Store Open 7 A. M. to 8 P. M.

In writing advertisers, mention Horticulture

HOLLY

AND

CHRISTMAS EVERGREENS

Telephone 6268-6267 Main

WELCH BROS.
15 Province St.
BOSTON

E. H. HUNT

Wholesale

Cut Flowers

"THE OLD RELIABLE"

76 Wabash Av., CHICAGO

In writing advertisers, mention Horticulture

Weiland & Risch

Leading Western Growers and Shippers of

Cut Flowers

59 Wabash Ave., - CHICAGO

Long Distance Phone Central 879.

In writing advertisers, mention Horticulture

VAUGHAN & SPERRY

Wholesale
Commission Florists

If you wish to buy or sell, see them first
PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

In writing advertisers, mention Horticulture

Paper Whites Romans Valley

W. J. Baker, 1432 So. Penn Sq.
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WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

In writing advertisers, mention Horticulture

CHAS. W. MCKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids

Valley Violets and all Cut Flowers

WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Nov. 23	ST. LOUIS Nov. 20	PHILA. Nov. 23	BOSTON Nov. 20
ROSES				
Am. Beauty and Edgely Fan, & Sp.	50.00 to 60.00	20.00 to 25.00	30.00 to 40.00	20.00 to 40.00
" " " " " " " "	12.50 to 25.00	15.00 to 20.00	20.00 to 25.00	12.00 to 22.00
" " " " " " " "	12.00 to 18.00	8.00 to 10.00	12.00 to 15.00	6.00 to 8.00
" " " " " " " "	8.00 to 10.00	3.00 to 6.00	5.00 to 6.00	4.00 to 6.00
Bride & "Maid—Fan, & Sp.	7.00 to 8.00	4.00 to 5.00	8.00 to 10.00	6.00 to 8.00
" " " " " " " "	5.00 to 7.00	2.00 to 3.00	5.00 to 6.00	4.00 to 6.00
" " " " " " " "	4.00 to 5.00	2.00 to 3.00	4.00 to 5.00	3.00 to 4.00
Liberty, Richmond Fancy	8.00 to 10.00	4.00 to 5.00	10.00 to 12.00	8.00 to 12.00
" " " " " " " "	6.00 to 8.00	2.00 to 3.00	5.00 to 6.00	5.00 to 6.00
Carnot and Kaiser Fancy	7.00 to 10.00	4.00 to 5.00	10.00 to 12.00	6.00 to 8.00
" " " " " " " "	4.00 to 6.00	2.00 to 3.00	4.00 to 5.00	3.00 to 4.00
Golden Gate, Chateauf, Fancy	8.00 to 10.00	4.00 to 5.00	10.00 to 12.00	6.00 to 8.00
" " " " " " " "	4.00 to 6.00	2.00 to 3.00	4.00 to 5.00	3.00 to 4.00
CARNATIONS				
Fancy Class	4.00 to 5.00	2.00 to 3.00	3.00 to 4.00	3.00 to 4.00
General Class and Lower grades	3.00 to 4.00	1.00 to 2.00	1.50 to 2.00	2.00 to 3.00
MISCELLANEOUS				
Cattleyas	60.00 to 75.00	1.00 to 1.50	50.00 to 60.00	50.00 to 60.00
Lily of the Valley	4.00 to 5.00	1.00 to 1.50	5.00 to 6.00	3.00 to 4.00
Chrysanthemums	6.00 to 10.00	3.00 to 4.00	10.00 to 15.00	4.00 to 6.00
Violets	1.50 to 2.00	.40 to .50	1.00 to 1.50	.50 to .75
Adiantum Cune-stum	1.00 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to .75
" " " " " " " "	1.00 to 1.50	.75 to 1.00	1.00 to 1.50	.50 to .75
Smilax	10.00 to 12.00	12.00 to 15.00	12.00 to 15.00	8.00 to 12.00
Asparagus Plumosus, strings	10.00 to 15.00	15.00 to 20.00	15.00 to 20.00	10.00 to 15.00
" " " " " " " "	15.00 to 20.00	20.00 to 25.00	20.00 to 25.00	15.00 to 20.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty

WHOLESALE
GROWER OF

CUT FLOWERS

MUMS, BEAUTIES, VALLEY

Wholesale Florists

PHILA. CUT FLOWER CO. - 1516-1518 SANSON ST., PHILA.

TO BUYERS

Patronize our Advertisers, they will treat you right

Christmas and Easter BELLS

A NEW DESIGN, MADE FROM
RAINBOW SILK

Under Patents held by the
Koral Manufacturing Company
Furnished in sizes of 5 and 9
inches, and made to order for
special display up to 24 inches.

6 INCHES \$6 per Doz.

9 INCHES \$12 per Doz.

Manufacturers of Script Let-
ters, Emblems, Badges, etc.
Send for sample circulars and
discuss to the trade.

KORAL MANUFACTURING CO., 26 Hawley St., Boston, Mass.



A Daily Shipment

From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Want to advantage

E. F. WINTERSON CO. 45-47-49 Wabash
CHICAGO
CATALOGUE FREE

PETER REINBERG WHOLESALE

CUT FLOWERS

51 Wabash Av., Chicago, Ill.

In writing advertisers, mention Horticulture

VICTORY

THE BEST SCARLET CARNATION—Is a Fancy in the fullest sense of the word

Flower Market Reports.

BOSTON The day before Thanksgiving comes to us in a driving rain storm, and with very little that is exceptional in the line of business. The demand is somewhat better than ordinary, but not sufficient to disturb values to any extent. American Beauty and Liberty roses of the finer grades, and carnations in bright colors have made slight advances, but the rest of the market remains substantially as it was last week. Chrysanthemums, in many shipments, give evidence of having been kept too long, probably in the futile hope of enhanced Thanksgiving prices, and the petals fall in showers when the blooms are unpacked. Bonnafton and Eaton are the leaders.

The prices quoted in lists herewith are actual selling figures in this market. It is one thing to quote a price, and quite another thing to get it.

INDIANAPOLIS The cut flower trade, both of the grower and retailer, has been generally good. The crop of chrysanthemums has been the largest in years, with very few going to waste. Roses and carnations are in good supply; quality best in many seasons for this time of the year. Violet crop is somewhat short, most of the florists having to depend on outside growers for their supply. Green and decorative stock are plentiful; quality good, supply about equal to demand. The Thanksgiving trade gives promise of being fully up to the standard, with good supply.

LOUISVILLE. Business conditions last week were unusually good, stock in general being heavily demanded. The supply of chrysanthemums is about exhausted, after a very good season. Carnations of good quality are in fair supply with the demand unusually good. The sale of roses has been good, likewise the quality. The supply is up

Smilax Strings In Quantity

W. E. McKISSICK
Wholesale Florist
1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1596 Rantstead Street, PHILADELPHIA
Store Closes 5 P. M.

**FANCY OR
DAGGER**

FERN No. 1 STOCK,
only 75c per 1000
Brilliant bronze or green
75c per 1000

GALAX,
Use our laurel festooning for your Decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily. gathered fresh from the woods. Hand made, full sizes, 4c 5c and 6c per yard. Once used, always used. Branch Laurel, 50c per large bundle. Princess fine by the pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

to expectations. Other stock finds ready sale.

NEWPORT The business outlook is much brighter than it was a week ago and a great part of what remained of the chrysanthemum crop has been used up. The dealers are anticipating a rush of orders incident to the many entertainments, public and private, which are always given in Thanksgiving week. On these occasions quite a business is done in plant decoration. It is not over profitable however as plants are often damaged almost to the amount realized. Nevertheless complaint is seldom heard, the sufferers contenting themselves with profits from other sources contributed sometimes by the parties benefiting by the plant transaction.

NEW YORK A better tone prevails in the cut flower market this week. Buyers are turning from the chrysanthemums, the supply of which is diminishing, to roses and carnations. Bridesmaid, Bride, Killarney, and American Beauty, Liberty and Richmond are in much better demand and the price steadily improves. This advance will be maintained unless the supply for Thanksgiving day be abnormal.

Carnations are selling well at better prices than last week. Orchids are holding their own at quoted prices. Violets are not in brisk demand, consequently prices are unsteady.

The varieties of chrysanthemums coming into the market are Chadwick, Enguehard, Bonnafton, Eaton, McArthur, Jeanette, and a few others of lesser importance, all of which are moving satisfactorily. Green stuff is selling fairly well but at low figures, the supply being large.

PHILADELPHIA There was a good demand for Beauties the past week and prices stiffened a little. Brides and Bridesmaids were a little off as to quality on account of the mild weather, but went fairly well. Richmond was rather scarce, but there were plenty of fine Liberty. Of Killarney and Chateau there are some nice flowers on the market. Carnations in short supply, but good

Prices accordingly. Fancy Enchantress brought as high as \$5—the same grade that formerly commanded \$3. Flamingo, Fiancee, Lady Bountiful, Boston Market, Vesper and Lieutenant Peary are among the leaders at present. The best chrysanthemums at present are Chadwick, white Eaton, yellow Bonafont and Dorothy Faust. Violets are none too plentiful, with prices firm. Gardenias and lily of the valley are in good shape and selling well. Cypripedium Leeannum is proving a good seller and brings about 20 per cent. higher than the ordinary varieties.

SAN FRANCISCO NOTES.

Our last report closed with the proceedings of the first day of the flower show of the State Floral Society and the Pacific Coast Horticultural Society. On the second day there was an exhibition of floral designs, and Frank Pelicano & Co. won the first prize, a silver vase valued at \$60. The second prize, a gold medal, was awarded to Matraria Brothers, the Belmont florists. The special committee that judged the floral designs was: Mrs. J. H. Gilmore, G. Culligan and V. Podesta. The attendance on the third and last day was far much in excess of that of the two previous days. On this third day there was a popular vote of the patrons for the best general display, the prize being a valuable silver cup presented by Shreve & Co., of San Francisco. John H. Sievers & Co. won the trophy by 663 majority votes. H. Plath and Domoto Bros. were next in the order named for the honor, both of whom presented capital exhibits.

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Roses					
Am. Beauty, fan and sp.....	12.00 to 20.00	10.00 to 15.00	Carnations		
" extra.....	6.00 to 10.00	10.00 to 15.00			
" No. 1.....	4.00 to 6.00	6.00 to 10.00	Fancy Class.....	2.00 to 3.00	3.00 to 4.00
" Lower grades.....	1.00 to 3.00	2.00 to 4.00	General Class and Lower grades..	1.00 to 2.00	1.50 to 2.00
Bride & 'Maid, fan and sp.....	3.00 to 4.00	5.00 to 8.00	Cattleyas.....	50.00 to 60.00	50.00 to 75.00
" extra.....	2.00 to 3.00	3.00 to 5.00	Lily of the Valley.....	1.00 to 2.00	1.50 to 3.00
" No. 1 and lower grades.....	.50 to 1.00	.75 to 2.00	Chrysanthemums.....	5.00 to 25.00	5.00 to 25.00
Liberty, Richmond, fan, and sp.....	6.00 to 15.00	10.00 to 15.00	Oncidiums.....	2.00 to 3.00	2.00 to 3.00
" Ordinary.....	1.00 to 4.00	2.00 to 6.00	Lilies.....	6.00 to 10.00	6.00 to 8.00
Carnot and Kaiserin, fancy.....	4.00 to 5.00	5.00 to 6.00	Violets.....	.50 to 1.25	.75 to 1.25
" Ordinary.....	.50 to 2.00	1.00 to 3.00	Adiantum Canadense.....	.50 to .75	.50 to .75
Golden Gate, Chateaux, fancy.....	4.00 to 6.00	4.00 to 8.00	Crownatum.....	1.00 to 1.25	1.00 to 1.25
" Ordinary.....	.50 to 2.00	.75 to 2.00	Smilax.....	6.00 to 10.00	6.00 to 12.00
			Asparagus Plumosus, string.....	25.00 to 35.00	25.00 to 35.00
			" & Sprengeri, bunches	10.00 to 20.00	15.00 to 20.00

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exhib.	12.50	to 15.00	to 20.00	to 25.00
" No. 1 and 2	8.00	to 10.00	to 12.00	to 15.00
" Lower grades	5.00	to 6.00	to 8.00	to 10.00
Bride and Mad, fan, and sp.	5.00	to 6.00	to 8.00	to 10.00
extra	3.00	to 4.00	to 5.00	to 6.00
" No. 1 and Lower gr.	1.00	to 3.00	to 4.00	to 5.00
Liberty, fan, and sp.	1.00	to 3.00	to 4.00	to 5.00
Ordinary	1.00	to 3.00	to 4.00	to 5.00
Carnot and Kaverin, Fancy	5.00	to 6.00	to 8.00	to 10.00
Ordinary	3.00	to 4.00	to 5.00	to 6.00
Golden Gate, Chateaux, Fancy	2.00	to 3.00	to 4.00	to 5.00
Ordinary	1.00	to 2.00	to 3.00	to 4.00
CARNATIONS				
Fancy Class	3.00	to 4.00	to 5.00	to 6.00
General Class	1.50	to 2.00	to 2.50	to 3.00
MISCELLANEOUS				
Cattleyas	1.00	to 2.00	to 3.00	to 4.00
Lily of the Valley	1.00	to 2.00	to 3.00	to 4.00
Violets	.50	to .75	to 1.00	to 1.25
Lilies	12.00	to 15.00	to 18.00	to 20.00
Chrysanthemums	4.00	to 5.00	to 6.00	to 7.00
Adiantum Cuneatum	1.00	to 1.50	to 2.00	to 2.50
" Crotoneum	1.00	to 1.50	to 2.00	to 2.50
Smilax	12.50	to 15.00	to 18.00	to 20.00
Asparagus Plumosus, strig.	1.00	to 1.50	to 2.00	to 2.50
" & Sprenger, bunches	25.00	to 35.00	to 45.00	to 55.00

Geo. A. Sutherland Co.

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34 HAWLEY STREET - BOSTON

List of Advertisers

Page	Advertiser
Allen Wm. Stuart Co.	537
Aschmann Godfrey.	537
Baker Wm. J.	584
Banbrick, Thos. H.	591
Barrows H. H. & Son.	574
Bayersdorfer H. & Co.	582
Beaven, E. A.	583
Black, Chas.	571
Blackstone Z. D.	583
Blaney E. G.	571
Boyd W. J. & Co.	583
Boudinot A. T.	574
Bonnot Bros.	587
Boston Florist Letter	Co.
Breck Joseph & Sons	574
Breitmyer's J. Son	583
Budding J. A.	584
Burnham Hitchings	Co.
Pierson Co.	592
Burpee W. A. & Co.	574
Chicago House Wreck-	ing Co.
Chicago Carnation	Co.
Cochran Mushroom	Co.
Cooke G. H.	582
Cottage Gardens	571
Crowl Fern Co.	585
Dalger Wm.	587
Dimmock A.	572
Dorrance B. H.	574
Dreer H. A.	591
Dysart R. J.	591
Elliott Wm. & Son.	572
Esler J. G.	591
Ernest W. H.	590
Farguhar R. & J.	Co.
Fletcher F. W.	574
Ford Bros.	586
Forest Nursery	Co.
Seed Co.	571
Froment H. E.	586
Fromow W. & Sons.	571
Grey T. J. & Co.	574
Gude A. & Bro.	583
Gurney Heater Mfg.	Co.
Gutman Alex. J.	570-581-585-586
Hazi Asso.	591
Hammond Paint &	Slug Shot Works.
Heller & Co.	574
Herzog W. S.	572
Hews A. H. & Co.	591
Hippard E.	591
Haran E. C.	586
Horticulture Pub. Co.	571
Hunt E. H.	584
Igloe Bros.	570
Kasting W. F.	587
Kervan Co.	585
Kessler, P. F.	587
King Cons. Co.	591
Klokner A.	521
Koral Mfg. Co.	581
Lager & Hurrell.	572
Lang Julius.	587
Langjahr, Alfred H.	586
Leuthy A. & Co.	572
McCarthy N. F. &	Co.

Page	Advertiser
McConnell Alex.	585
McDonald R. T.	585
McKellar Charles W.	584
McKissack W. E.	585
McManus Jas.	586
Mechan Thos. & Son	581
Metropolitan Material	Co.
Michell H. F.	574
Michigan Cut Flower	Exchange.
Milling Charles.	586
Mitsung Frank.	581
Minger J. C.	591
Mr. Hussarik Nurser-	ies.
Murdoch J. B.	571
Niessen Leo.	524
Patton & Co.	570
Pennock Samuel	570-583
Perkins John.	587
Phila. Cut Flower Co.	584
Pierson F. R. Co.	572
Pittsburg Cut Flower	Co.
Pye R. C.	570
Ramona Nursery.	572
Ravage W. W. & Co.	574
Raynor John J.	586
Reed & Keller.	583
Reid Edw.	586
Reinberg Peter.	584
Robinson H. M. &	Co.
Roebers Julius.	572
Roelck August & Son.	573
Rowlch & Grinn.	572
Saltford, Geo.	587
Sander & Son.	572
Schilo Lumber Co.	599
Schmidt J. C. Co.	572
Se Ray John A.	571
Scott Geo.	572
Sharp, Partridge & Co.	572
Sheridan W. F.	586
Sievers J. H. & Co.	570
Suggers & Suggers.	591
Situations & Wants.	590
Skidelsky.	572
Stern J. & Co.	583
Stearns A. T. Lumber	Co.
Stevens H. H.	570
Stump & Walter Co.	572
Sutherland Geo. A.	587
Suzuki & Iida.	572
Thompson J. D. Co.	570
Thornburn J. M. & Co.	574
Thornburn Bros.	592
Totman H. W.	584
Traendly & Schenck.	586
Troy, J. H.	571
Vaughan and Sperry.	584
Wah M. H.	571
Ward Ralph M. Co.	572
Watson G. C.	572
Weber C. G.	586
Weber H.	586
Weber Bros.	584
Weiland & Risch.	584
Wester Bros.	584
Winterich C.	571
Winterson E. F.	584
Woodall Edward.	571
Young John.	586
Young Nugent.	586
Young Thos. Jr.	583

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Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

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Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
Bermuda Harrisil Bulbs.
For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Bermuda Grown Harrisil and Freesias.

R. & J. Farquhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
For page see List of Advertisers.

J. M. Thornburn & Co.,
36 Cortland St., New York.
For page see List of Advertisers.
Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

Ramona Nurseries, Shorb, Calif.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CALLAS.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St.,
St. Francis, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
For page see List of Advertisers.

H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

H. A. Stevens Co., Dehnam, Mass.
Rooted Cuttings Variegated Lawson.
For page see List of Advertisers.

Alex. J. Guttmann, 43 W. 28th St., N. Y.
Carnation Victory.
For page see List of Advertisers.

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S. S. Pennock, Philadelphia, Pa.
John E. Haines, My Maryland.
For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

R. T. McGorum, Natick, Mass.
For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterlich, Defiance, O.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.

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Hiram T. Jones, Elizabeth, N. J.

FERNS.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersonii Elegantisima.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

M. B. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St.,
Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

J. Stern & Co., 1028 Germantown Ave.,
Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Korat Mfg. Co., 201 W. 27th St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.
Fred C. Weber, 432-28 Olive St.,
St. Louis, Mo.
For page see List of Advertisers.
Young & Nugent, New York.
For page see List of Advertisers.
J. Breitmyer's Sons, Miami & Gratiot
Aves., Detroit, Mich.
For page see List of Advertisers.
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For page see List of Advertisers.

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(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 25th and C Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Weich Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

H. F. Michell & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLADIOLUS.

Rowehl & Granz, Hicksville, L. I., N. Y.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

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H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

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Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moninger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

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Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.

For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

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Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

Walter Thompson, 2195 Boulevard,
Jersey City, N. J.

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August Rolker & Sons, 31 Barclay St.,
New York.
For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICOTIANA SANDERAE.

Sander & Sons, St. Albans, Eng.

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Mt. Pleasant Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.

PAEONIES.

Gilbert H. Wild, Sarcozie, Mo.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PALMS.

Romona Nurseries, Shorb, Cal.
For page see List of Advertisers.

PATENTS.

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Nots, Geraniums.
For page see List of Advertisers.

H. M. Totman, Randolph, Vt.
Snap Dragon, Sweet Peas, Geraniums.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Robbink & Atkins, Rutherford, N. J.
Azalea Indica, Kautias, Bays.

S. S. Penneck, Philadelphia.
Boxwood Sprays, Dwarf Evergreens, Cedar
Bark.
For page see List of Advertisers.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publish-
ing Co., Boston.
For page see List of Advertisers.

The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Brettmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

RETAIL FLORISTS.

(Continued.)

Z. D. Blackstone, 14 & H Sts., Washing-
ton, D. C.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Rambles.

August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.
For page see List of Advertisers.

Thos. Meehan & Sons, Dreshertown, Pa.
Box C.
For page see List of Advertisers.

Hiram T. Jones, Elizabeth, N. J.
Crimson Rambler.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.
For page see List of Advertisers.

RUSSIAN LILY OF THE VALLEY.
Stump & Walter Co., 50 Barclay St.,
New York.
For page see List of Advertisers.

SCOTT FERN.

John Scott, Keap St., Brooklyn, N. Y.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall St., Boston.
Cyclamen Seed.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Forest Nursery & Seed Co., McMinnville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.

E. A. Heaven, Evergreen, Ala.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.
J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.
For page see List of Advertisers.

Wm. F. Kasting, 383-37 Elliott St., Buf-
falo, N. Y.

WHOLESALE FLORISTS.

(Continued.)

Chicago.

For page see List of Advertisers.

J. A. Bodiong, 37 Randolph St., Chicago.
 E. H. Hunt, 26-78 Wabash Ave., Chicago.
 Chas. W. McKellar, 51 Wabash Ave., Chicago.
 Peter Reinberg, 51 Wabash Ave., Chicago.
 A. L. Randall, Co. 21 Randolph St., Chicago.
 Welland & Risch, 59 Wabash Ave., Chicago.
 Wietor Bros., 51 Wabash Ave., Chicago.
 Vaughan & Sperry, 60 Wabash Ave., Chicago.
 E. F. Winterston, Co. 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
 Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.

Michigan Cut Flower Exchange, 38 & 40
 Miami Av. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.

Bonnot Bros., 55-57 West 20th St., New York.
 Ford Bros., 48 West 23rd St., New York.
 H. E. Fremont, 57 W. 23rd St., New York.
 Alex. J. Guttman, 43 West 23rd St.
 E. C. Horan, 55 West 23rd St., New York.
 Philip F. Kessler, 55 W. 20th St., New York.
 Julius Lang, 53 West 30th St., New York.
 A. H. Langjahr, 55 W. 23rd St., New York.
 James McLanahan, 50 W. 30th St., New York.
 Chas. Millang, 50 West 23rd St., New York.
 Frank Millang, 55-57 W. 20th St., New York.
 John J. Perkins, 115 W. 30th St., New York.
 John I. Raynor, 49 W. 23rd St., New York.
 George Salford, 46 W. 23rd St., New York.
 W. F. Sheridan, 49 W. 23rd St., New York.
 Trendley & Schenck, 44 W. 23rd St., New York.
 John Young, 51 W. 23rd St., New York.

Philadelphia.

For page see List of Advertisers.

W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
 W. J. McKissick, 1221 Filbert St., Philadelphia, Pa.
 Leo Nissen, Co., 1217 Arch St., Philadelphia, Pa.
 S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
 Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.

Pittsburg Cut Flower Co., Ltd., 504
 Liberty St., Pittsburg, Pa.
 J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

ASPARAGUS PLUMOSUS.

E. G. Blaney, Swampscott, Mass.
 For page see List of Advertisers.

CARNATIONS, CHRYSANTHEMUS, ROOTED CUTTINGS.

S. S. Pennock, Philadelphia.
 For page see List of Advertisers.

CHRISTMAS BELLS AND HOLLY.

N. E. McCarthy & Co., 81 Hawley St., Boston.
 For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

H. H. Weber & Sons Co., Oakland, Md.
 For page see List of Advertisers.

HOLIDAY SUPPLIES.

H. Bayersdorfer & Co., Philadelphia.
 For page see List of Advertisers.

PINK PATTEN AND MIKADO CARNATIONS.

Patten & Co., Tewksbury, Mass.
 For page see List of Advertisers.

CATALOGUES RECEIVED.

Reisner Bros., Ocala, Fla.—Native and exotic plants, trees and shrubs.
 W. K. Nelson, Augusta, Ga.—Price list of field grown roses, ornamental shrubbery and trees.

NEWS NOTES.

H. H. Nicholson and A. C. Grasl have entered into partnership and purchased the greenhouse of C. A. Nicholson at Barnevel, N. Y.

Finland has twelve schools of horticulture and twenty-four schools of agriculture. The Finns are among the best educated nations in Europe.

A new frame building is being erected for the Elm City Nursery Co. at Edgewood, Conn., to be used for storage and packing, increasing materially their facilities in this direction.

The trustees of the Ohio State University, Columbus, have engaged Olmsted Brothers of Boston, to plan and carry out a scheme for the beautifying of the university grounds comprising 325 acres.

New York's forests are disappearing as rapidly as those of her sister States. In the past year 789,215,323 feet of lumber were cut. The northern counties are being rapidly denuded of their valuable forests.

Over 1,000 men are now employed in the work of destroying brown-tail and gypsy moths under the supervision of the moth suppression bureau of Massachusetts. Many more are in the employ of private parties.

Prof. W. M. Munson, horticulturist of the Maine agricultural experiment station at Orono, is making a collection of the native Maine apples that seem to be worthy of propagating. He will welcome any specimens that may be sent to him for examination.

In addition to the \$20,000 left to the Rhode Island hospital by Henry G. Russell for laying out and beautifying the grounds, his widow has caused a greenhouse to be erected at a cost of \$8,000 and provided for its future maintenance by an endowment of \$15,000.

The commissioners at the Portland Exposition awarded two gold medals to Luther Burbank for plums and photographs of new fruits and flowers; and gold medals to the California State Horticultural Society and the California Nursery Company at Niles for fruits and vegetables.

In memory of her brother, Charles Walcott Burr, a beautiful stretch of land situated in Auburndale, has been presented to the city of Newton, Mass., by Miss Lucy Burr, for use either as a park or recreation ground. The land has been graded and made attractive with shrubs and flowers.

The new horticultural building at the Massachusetts Agricultural College has been named Wilder hall by the trustees in honor of Marshall P. Wilder. Mr. Wilder was foremost in pushing the organization of the college, was one of the first trustees, and donated many plants, shrubs and trees for the grounds as well as books for the library.

The federal government will make an extensive exhibit at the Sportsman's Show which will open at Mechanic's Hall, Boston, on Christmas day. The exhibit will occupy the whole of the west wall of the great triangular exhibition hall. It will include illustrations of tree culture, of forest botany, collections of seeds, and of insects injurious to trees, of native woods, of

forest industries and of instruments and tools used by foresters and by lumbermen.

The gypsy moth is engaging the attention of the officials of the Rhode Island Agricultural College, who are prime movers in the matter of securing State help for the destruction of this pest. There seems to be a feeling throughout the State that it would be well to heed this appeal before the need assumes such magnitude that even with State assistance it may be a hard task to perform.

The San Jose scale is also spreading at an alarming rate in parts of Rhode Island, where, if its progress is not soon arrested, it will in destructiveness equal the gypsy moth. The San Jose scale may be the easier of the two to control, but what is needed is a systematic warfare without option.

GREENHOUSES BUILDING AND PROJECTED.

Molyneux, N. Y.—Frank Martin, one house.

Brockton, Mass.—Robert Moir, one house.

Deering, Me.—Frank J. Prouty, one house.

Phoenix, R. I.—George Whitford, one house.

Glastonbury, Conn.—O. R. Morgan, one house.

Peabody, Mass.—J. M. Ward & Co., two houses.

Kansas City, Mo.—W. L. Rock, range of houses.

Manchester, Conn.—John H. Cheney, one house 40 x 60.

Springfield, Mass.—Wm. Schlatter & Son, four houses.

Trenton, N. J.—C. Ribsam, three houses, 15x160 each.

Hills Grove, R. I.—Dr. L. C. Knowles, one house.

Thompsonville, Conn.—D. Wm. Brainard, one house 20 x 60.

Elmhurst, Cal.—Paul W. A. Gralbert, one house, 20x150.

Halifax, Mass.—A. C. Burrage, six vegetable houses, each 300 feet long.

Bar Harbor, Me.—Kennedy's Greenhouses, one house; Mr. Bowdoin, one house.

The Glenwood Nursery at Burlington, Cal., P. C. Meyer, proprietor, will be enlarged next season by a new range to be devoted to orchids.

WANTS.

WANTED—A Practical Nursery Office Man, who is acquainted with Nursery Business, can also act as Salesman. Good salary and cottage, steady position. Address reference, "W. C. W." care THE HORTICULTURE.

WANTED—Salesman; bright, active man, thoroughly competent, for ribbons, supplies and cut flowers. Apply with full particulars as to salary wanted, experience, references, to S. S. Pennock, 1612-18 Ludlow Street, Philadelphia.

SITUATION WANTED as private gardener and florist; 10 years' practical experience in United States and Europe. Capable of developing new places tastefully. Address R. C. care HORTICULTURE, 11 Hamilton Place, Boston.

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GREENHOUSES
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Ventilating Apparatus

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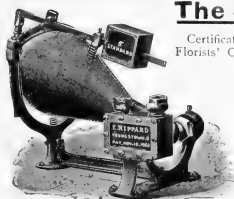
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PATENT LAWYERS

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Washington, D. C.

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from Horticulture's Advertisers.

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The Standard Ventilating Machine will
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The Duplex Gutter is gaining all the time, over
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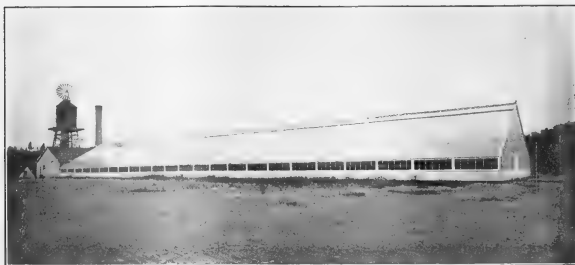
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and 40 ft. wide, with wooden capping, galvanized iron eave plates, and cast iron foot pieces, glass 16 in. between bars. Especially designed for W. W. Edgar of Warely, Mass., for the growing of cut flowers and vegetables. The double doors at the end and driveway through the centre greatly lessens the labor of changing the soil. On entering the house you are at every point impressed with its lightness of construction.

These are some of the things said about it by visitors:

"Lightest house I ever saw." "Remarkable in its lightness of construction." "Just the right size of house."

The use in this house of the galvanized angle iron eave plate and patent sash bar clips are two strong points. Strong at just the vital point of the house, the joining of sash bars at the eave line; the fortifying of the sash bar from decay, the prevention of rust by galvanizing. Send for information about these strong points of our houses.

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... Of ...

HORTICULTURE

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HORTICULTURE

Vol. II.

DECEMBER 9, 1905

No. 24



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I offer exceptionally strong two-year-old dormant, low-bedded stock
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Baroness Rothschild, satiny pink; extra.
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Duke of Edinburgh, bright vermillion; very fine.
Fisher Holmes, dark rich scarlet.
General Jacqueminot, rich velvety crimson.
General Washington, beautiful red, shaded carmine.

John Hopper, beautiful rose-pink.
La France, the finest light pink.
Margaret Dickson, white, pale flesh center.
Magna Charta, clear rosy pink.
Mme. Gabriel Luizet, light, satiny pink.
Mme. Plantier, white.
Mrs. John Laing, soft pink; most desirable variety.
Paul Neyron, beautiful dark pink.
Prince Camille de Rohan, velvety crimson.
Ulrich Brunner, cherry red.

Price per bundle of ten, \$1.25; per hundred, \$11; per thousand, \$100

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ETOILE DE FRANCE.

The Queen of the Everblooming Red Roses.

The most free-blooming and vigorous Red Rose ever introduced. This new variety is the result of a cross between Madame Abel Chatnay and Fisher Holmes.

For cut-blower purposes it is unsurpassed, on account of its color and free blooming qualities. Field-grown strong 2-year-old plants, 50 cts. each; \$5.50 per doz.; \$40.00 per 100.

THE KILLARNEY ROSE

This rose is equally useful for summer flowering or winter blooming under glass. Color beautiful "Testout" pink. Buds very long—blooms cut will last a week to ten days. Good strong field-grown two-year-old plants, \$3.00 per 10; \$25.00 per 100.

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Large heavy plants, two years old, 3 to 5 feet, \$2.00 per 10; \$15.00 per 100.

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Chenille Bells, in No. 2 size only at the same price.

Folding Bells, popular Bee-hive style 5 1-2 inch actual diameter measure, per doz. 40 cts. per 100 \$3.00; 8 inch 75c. per doz., \$6.00 per 100; 12 inch \$1.25 per doz., \$10 per 100.

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPICE—Conservatory of Mrs. B. P. Cheney		NEWS OF THE CLUBS AND SOCIETIES (Continued)	
ADIANTUMS—A. Hans—Illustrated.	603	Society of American Florists	612
SOIL STERILIZATION—R. L. Adams	605	Tarrytown Horticultural Society	612
CALCEOLARIAS—James Stuart	605	Club and Society Notes	613
CHOICE CROTONS—Edgar Elvin	606	SEED TRADE	614
HINTS ON BOILERS AND HEATING	606	Competition in Potatoes	614
A CITY HOME CONSERVATORY—Illustrated	607	HANNAH HOBART—Illustrated	614
EUCHARIS AMAZONICA—David McIntosh	607	CUT FLOWER MARKET REPORTS	
GARDENING—David McIntosh	607	Boston, Buffalo, Chicago, Louisville, Newport,	
THE AMERICAN BEAUTY—Wm. Scott	608	New York, Philadelphia, San Francisco, St.	
BRITISH HORTICULTURE—W. H. Adsett	608	Louis	625
ROSE HOUSE WISDOM—R. T. McGorum	609	MISCELLANEOUS	
EDITORIAL	610	News Notes	611
AFTER ADJOURNMENT	611	Obituary	611
CATTLEYA LABIATA—Illustrated	611	Personal	611
NEWS OF THE CLUBS AND SOCIETIES		"Dear is Auld Boston, O!"	611
Massachusetts Horticultural Society	612	Employees of F. Sander & Sons—Illustrated	613
A Smoker at Pittsburg	612	List of Patents	614
Chrysanthemum Society of America	612	A Notable Opening	614
Gardeners' and Florists' Club of Boston	612	Philadelphia Notes	624
Elberon Horticultural Society	612	A Good Hose	624
Lenox Horticultural Society	612	A Happy Congratulation	624
New Jersey Floricultural Society	612	Greenhouses Building or Projected	624
		Business Changes	624
		Catalogues Received	632
		Public Documents Received	632

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Adiantums



A CUNEATUM SEEDLING

Adiantums are the most useful and most used ferns in decorative work. They are, in fact, indispensable for this purpose. *A. pedatum* is the only one hardy in New England. They require temperate or stove houses according to their origin. Shallow pots, or other pots half-filled with crocks and a mixture of half-decayed leaf mold, loam and a little sand will accommodate nearly every one. In cultivation they do not like sun but much light and no sprinkling overhead except in very warm days with plenty of air.

Some of the deciduous species are specially grown for cutting purposes. They are better grown on benches or in boxes; for that use big clumps are not the best. I think it better to let them rest in January and February; after that clean off all the old fronds, divide the clumps into two to four pieces each and replant in new soil. *A. Farleyense* in a 10-inch pot will not do much the second year if not separated; so with others. On those with creeping root stocks it is easy to see that the biggest fronds grow from the extremity of the underground shoots and not from the centre of the clumps; this may be said, with few exceptions, of all other ferns that do not grow from a single stem; naturally that does not include young plants that are to be grown through.

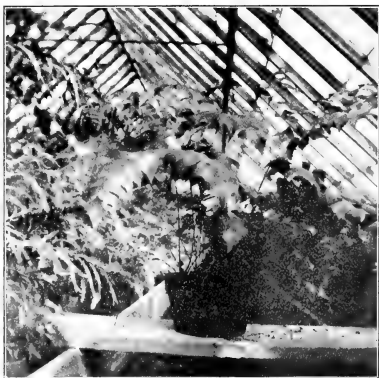
Adiantum is a genus which includes a great many species. They are all easily recognized by the form of their leaflets which are all more or less heart and wedge shaped, the edges differently dentated or undulated, round or long; the ribs are spread out like a fan from the base toward the edge without midrib; nearly all have thin, black wiry stems. The fruit dots grow at the upper edge of the leaflets in little dots or lines and are recovered by the inverted part of the limb which serves as an indusium. As to their usefulness they can be divided

horticulturally into two sections: first, those that are quick growers and valuable for decoration; second, stove growing species useful mainly for collections. In this latter section are the largest growing and most interesting species.

In the first section is the well-known *Adiantum cuneatum*. It is a native of Brazil and the easiest to grow, reproducing itself naturally from spores which grow all over pots and benches where a few plants stand in the greenhouse; it causes trouble sometimes in seeding other fern spores collected near where adiantums stand; the spores being so minute and numerous are blown about and attach themselves to the nearest leaves, and it is not unusual to have a crop of *Adiantum cuneatum* in the place of what was expected. This, and *Nephrodium molle* for the same reason, should be kept far from other ferns intended to be used for spore seedlings.

There are many varieties from *cuneatum*, all of garden origin: *A. c. gracillimum* is the best known and very fine; *A. c. Charlotte* is not unlike the preceding, finely dentated; *A. c. grandiceps* has the top of the frond crested; *A. c. Legrandi* is a dwarf *gracillimum*; *A. c. Luddemannianum* is a very curious plant with its bunch of crested leaflets on top of a naked stem; *A. c. Pecotiei* is a compact dwarf grower; *A. c. mundulum* is another dwarf variety. Others are coming to light frequently. *A. c. Crowanum* is one of the latest. I have one in which the leaflets are all lacinated. Most of these varieties are probably accidental hybrids, taking into consideration the quantity and vitality of *A. cuneatum* spores. Some are not as fruitful as the type but all reproduce themselves nearly true from spores.

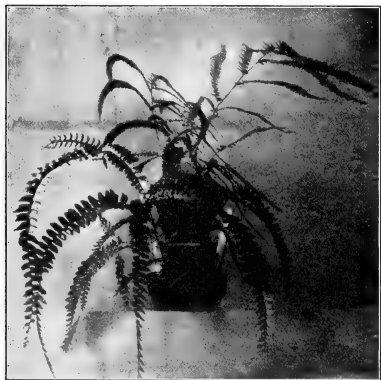
A. concinnum from West Indies and Central America is another useful plant. The fronds, sometimes two feet long, are symmetrically branched, of a narrow tri-



ADIANTUM TRAPEZIFORME

angular outline and arching. *A. c. latum* has the frond more narrow and erect. *A. tenerum* is a native of Florida, West Indies and Central America. It is a big-growing species, in appearance like a giant cuneatum and makes a fine exhibition plan. *A. ten. Farleyense*, better known under the name *A. Farleyense*, comes from Barbados. It is well known and is certainly the nicest of all the adiantums. It is generally regarded as a difficult plant to grow; if given enough heat and moisture and planted in a good porous soil it will succeed.

A. Capillus-Veneris is the true maidenhair fern from whence the genus takes its popular name. It was the first adiantum known and described by the Greeks and Romans for its medical qualities. It is found growing wild nearly all over the world. In America it is found from the Southern States to the Amazon. Fronds are



LINDSAYA GUIANENSIS AND TRAPEZIFORMIS

from one to one and one-half feet long, narrow, ovate in outline, with long stem. This is a good fern to plant among moist rocks or on brick walls in the greenhouse where it will creep and cling with very little soil and grow plenty of fronds. If grown in pots or boxes the plants must be set shallow so the rootstock can creep on top of the soil. There are a few varieties dwarfier or more vigorous with small or large leaflets, some crisped, some feathered; the best of them is *A. C.-V. imbricatum*, known as "hardy Farleyense," which it resembles, being only smaller and not requiring so much heat.

A. decorum (Wagneri) from Peru looks like cuneatum. The fronds when young are of a pinkish color, more narrow and of heavy texture. *A. Williamsii* from Peru has very graceful arching fronds, the leaflets nearly round, not big, are set well apart, and the fronds are not crowded. The whole plant has an airy appearance. The young fronds when beginning to grow are covered with lemon yellow dust which soon disappears. *A. fulvum*, from the South Sea Islands, is a

vigorous, compact grower. The fronds are in form like our *A. pedatum*, but smaller, more compact and hairy. *A. ethiopicum*, *A. Colisii*, *A. excisum*, *A. scutum*, *A. rhodophyllum* and some others are all in the useful class.

In the other section, which contains plants which are only grown for a conservatory or as exhibition plants one of the most cultivated, *A. trapeziforme* from West Indies and Central America, is a very handsome big-growing fern, conspicuous for its large fronds and broad leaflets. It varies much in its wild state, and some good forms have been introduced and are in cultivation. *A. tetraphylla*, which grows in the same country as the preceding is of compact habit; the leaflets are long, set near together and of a very elegant appearance. It is a very variable plant too, and a few nice forms have been found. *A. formosum* is a native of New Zealand and Australia. It grows to quite a size and makes a good exhibition plant. The outlines of the fronds are triangular and pointed. *A. cardioclæna* or *polyphyllum*, from Columbia, is in appearance not unlike our *A. pedatum*, of heavier texture and much bigger, but requires stove house culture. The fronds of this species grow from a short creeping rootstock, the leafy part in a horizontal position on top of a long naked stem. *A. macrophyllum*, from West Indies and Central America is of erect growing habit, the frond simply pinnate and the leaflets very large, of a nice red color when young. *A. Fergusonii* from Ceylon is also of erect habit, narrow and of crispy appearance. *A. Lathamii*, which must be a hybrid, is a very fine decorative plant of great dimensions. The fronds of drooping habit are large and crowded with large leaflets. *A. villosum* from West Indies and Central America is a plant of robust growth and heavy texture, the fronds long and narrow. There are many more of this class in cultivation but the list would be too long for such a short article.

A. caudatum and *A. lunulatum*, the first from West the other from East Indies, have long, narrow, drooping, simply pinnate fronds, proliferous at the end. They are good plants for hanging baskets where young plants hang down from the end of each frond. *A. Feei* and *A. subvolubile*, both from Central America, are of climbing habit and grow the way of *gleichenias*. *A. reniforme* and *assarifolium* from Madeira and Mauritius Island, are small ferns that have only one kidney shaped leaflet on top of a wiry stem. They are more interesting than of decorative value.

A genus near allied to *Adiantum* but seldom seen in cultivation is *Lindsaya*. There are only botanical differences. The *Lindsaya*s are very elegant plants from Central America and South Sea Islands. They are a little hard to grow. We succeed well with them planted on the top of a pot filled with sandstone crocks in a little fibrous loam and grown in damp atmosphere. *L. guianensis*, *L. stricta* and *L. trapeziformis* are some good species easy to get from West Indies.

Am. D. Ham

Stamford, Conn.

Soil Sterilization

We are indebted to the Massachusetts Agricultural College and the Hatch Experiment Station for many things, their thorough investigation of soil sterilization being by no means the least of them. Boston lettuce growers are particularly indebted to Dr. Stone of the station, for if some easy and sure means had not been found for controlling certain lettuce diseases, this profitable crop would have been abandoned by necessity. And sterilization, as a means of preventing these diseases of lettuce, does not apply to conditions around one particular spot or to one special crop. It is insurance from attacks of all fungi which propagate through the soil. The timber rot of cucumbers, the drop and Rhizoctonia of lettuce, damping-off fungi, several kinds of which attack seedlings and cuttings, and the stem rots of carnations and chrysanthemums cover a wide range of country so that sterilization should be of wide interest and adoption where it has not already found a place.

Sterilization consists merely in heating all soil used to a high degree of temperature in order to kill all fungus growths which may be existing in it. This is accomplished by the use of live steam (or boiling water) run through a frame work of two-inch pipe, perforated with four rows of 1-4 in. holes. The pipes are placed about a foot apart and one end enters a header while the other is firmly plugged. The steam is forced under heavy pressure into the header and from there is distributed to the various pipes from which it is fed into the soil. This frame is placed on the bed or bench and earth is then piled on it from the side, thus one application treats soil equal to two times the area of the frame. The best results seem to come from treating the earth to a depth of one foot, heating to 180 degrees or more for an hour or two, after which the soil is covered with burlap and the heat retained as long as possible. One treatment should suffice for three or four years providing no new soil or organic matter is added.

Where it is not possible to submit all the soil used to the influence of steam, excellent results can be obtained by sterilizing that in which the seeds are planted, and the sand used in cutting beds. Many troubles can be traced directly to the infection of the plant while in the cutting bench, so if the cuttings are put in sterile soil, these particular ills can be avoided.

Sterilization also helps germination. Another great benefit is the extermination of wire worms, grubs, and the like, besides the destruction of nematodes or eel worms (*Heterodeia*) which tax violets, roses, cyclamens, melons, tomatoes, etc. Weed seeds are also destroyed.

This form of prevention has been practiced successfully for several years in a commercial way and while the initial cost appears to be large, one outfit will last several years and will treat large quantities of soil.

Calceolarias

From what we have observed the past summer, it is our belief that the vital question, viz., the care of the young seedlings during the hot summer months in the cultivation of hybrid calceolarias, has not been solved by a good many gardeners. We have been growing these plants for a number of years and so far have had no failures to record, and we think this is principally due to the fact that we have used sterilized soil entirely. Of course, we do not say that sterilized soil is a panacea for all the troubles that attack calceolarias, or that the eternal vigilance must in any way be released, but we are convinced that it prevents in a great degree that persistent habit the seedlings have of suddenly vanishing from view by damping off.

It is needless to go into the small details at any great length here concerning the sowing, pricking off, potting on as required, the use of tobacco stems between the plants, having the plants placed well up to the glass, etc., etc. We sow in the usual mixture of soil, leaf mould, sand, and fine charcoal, placing the seed pans in a cool shady corner and as soon as the seedlings are fit to handle they are pricked off, and then potted along as they require it, always bearing in mind that it is better to pot a little ahead of time than to allow the plants to become the least pot-bound. Spraying overhead which is so beneficial to most seedlings, only encourages damping in this instance, so we only wet overhead when doing the regular watering, and that should be discontinued as soon as they are large enough to be watered singly. Shading must be strictly attended to, for a half hour of bright sunshine on a hot day is most injurious.

The opinion has been occasionally expressed that it does not pay to grow calceolarias, but the private gardeners, especially those who have a conservatory to keep looking bright, find that they are almost indispensable, coming in at a season along with pelargoniums, when the usual run of winter-flowering plants are getting rather stale to look at. We would suggest for the commercial florist to try a house of them, say, instead of chrysanthemums. If well advertised, small plants to grow on should find a ready market further south than New England, where conditions are said to be wholly unfavorable for the raising of them in summer.

Of course, the first important thing is to procure a good strain of seed. Unfortunately there are still poor strains offered, for we have seen flowers that were not worth house room, but we feel sure that when we gardeners create enough enthusiasm in and demand for high-class flower seeds, the seedsmen will vie with each other in supplying our demands, for we hope to see the time when all our seedsmen will have houses of cyclamens, primulas, cinerarias, calceolarias, etc., devoted solely for seed purposes.

R. S. Adams.

James Stuart

Choice Crotons

The value of crotons as perennial decorative plants cannot be denied and a wider experience of their great variety, beauty and utility serves but to increase one's admiration. We have a choice of fine colors unequalled in any class. A large house full of these rich colors is perhaps too gorgeous to maintain one's continued interest, but it is in groupings relieved by greener and less intense tints that their value is appreciated, giving life and character to the whole and satisfying the keenest artistic sense. This fact should be borne in mind in groupings for exhibition purposes; every plant should stand well up, foiled by other subjects. In their growing quarters the value of having them together is obvious and where a whole house may be devoted to them it is a great advantage.

A few hints on cultural lines may be helpful. To begin with a house due north and south is necessary if the maximum of light is to be gained; plants should be arranged well up to the glass, care being taken that varieties that do not color freely be not overshadowed. The question of shade is a debatable one, but my experience is that thin roller blinds used at midday for a couple of hours on very hot days is helpful; one can syringe them without fear of scorching or molding; further, blinds may be let down on windy or frosty nights.

The question of temperature is important. In growing season it may run up to 110 degrees with impunity with a night drop to not less than 75, but it is in winter that the tendency is to overdo the heating. Crotons will stand much less than is usually given. If they are kept on the dry side with a temperature of even 50 to 55 they will not suffer but greatly benefit. They need a partial rest, and the fierce heat usually given, coupled with extra moisture, tends to immature growth and deformed foliage, spoiling that symmetry which is so essential. I have tried the above plan and when spring arrived the plants not being exhausted have burst forth with vigorous heads of clean foliage. A rich soil is essential; the old theory that barrenness produces variegation may be true with regard to sports, but given color, it needs to be developed by rich feeding if large, well-colored foliage is to be obtained. There is nothing better than old, well-dried night soil for bringing out color, using a sprinkling in potting soil. If ideal table or specimen plants are desired, the very best selected cuttings only should be used. Tops with not too much color are best. A good basis of green pigment is necessary if strong, healthy plants are to be gained; there is less danger of leaves dropping off also during the rooting process. Large tops should be ringed and mossed. The fall is the best season to strike cuttings; these make serviceable stock for table the following year. A few of the more highly colored varieties as, for example, Golden King, Aighurth Gem, etc., being usually weaker in constitution, are better grafted on stronger stock.

One need hardly emphasize the need of perfect cleanliness if crotons are to appear at their best. Red spider, thrips and scales are their natural enemies. A cooler temperature in winter for established plants coupled

with a constant use of the syringe in summer will do much to keep these down, but always a sponge over with Fir Tree oil brightens them up for exhibition or table.

The facility with which crotons can be bred by cross-fertilization has produced of late an innumerable crop of varieties, but one may perhaps mention a few really good things as types. In the broad-leaved section Flamingo, Reidii, Delightful, Sunbeam, Queen Victoria Superba, Challenger are a choice half dozen. In drooping and fine leaved varieties, Prince of Wales, Her Majesty, Aighurthensis, Warrenii, Sinitizianus and the old Chelsonii are admirable for table. As sub-tropical plants the commoner varieties may serve as bedders to lighten up with color some dull part of the garden, but suggestions for a more general use of crotons for service and profit will present themselves and a hint to the wise is sufficient.

Edgar Elvine

Hints on Boilers and Heating

The arrangement of pipes through a greenhouse should be given careful consideration, in order to distribute and control the heat properly. All conditions being favorable the gravity system with flow and return pipes placed under the benches will give the best results in a low pressure hot water apparatus. In houses 18 feet wide or over and 30 feet long or more the pipes should be placed under the side and center benches, and across the ends of houses. In narrower or shorter houses pipes under side benches and across the ends will answer in most cases. In houses where walks are located around the sides and ends next to the vertical walls, place the pipes under benches, also on the walls; where solid beds are used place pipes on the sides of the walks. All pipes under benches should rest on masonry piers, extending to solid earth, and projecting not less than three inches above ground. Pipes on walls of house should be hung on the posts supporting the structure, on solid beds; hang them on the sides of the beds, if constructed of masonry; if the sides of beds are wood, rest the pipes on piers.

It has been practically demonstrated by commercial florists and enlightened private gardeners that for large ranges of glass especially two inch diameter wrought iron pipe gives the best results in a hot water apparatus, pipes of less diameter cause more friction, and cool off too quickly when fire burns low. The use of four inch external diameter cast iron pipes and three inch boiler tubes has been almost abandoned in commercial establishments, for the reason that the temperature cannot be regulated quickly, there being such a large volume of water to cool off and to heat, also the difficulty in making repairs or extensions on account of caulked joints which are commonly used. In small ranges on private places cast iron pipe is still used, and advocated by many gardeners, for as a rule fires have to be left from 8 to 12 hours without attention, and the large volume of water in the pipes when once heated will maintain the temperature longer when the fire burns low than where smaller pipe is used.

A City Home Conservatory



The illustration above shows the entrance from the drawing room to the conservatory illustrated on the front page of this paper. This structure is without doubt the most unique private conservatory in the vicinity of Boston and it depicts how a home can be made attractive. The conservatory is placed over a basement extension in the rear of the residence, the basement being divided through the center by a corridor leading to a servant's sitting room and a store room, covering a total floor space of about 26 x 12 1-2 ft. The exterior masonry walls extend to a height of about 2 ft. above the floor of the conservatory and are built of pressed brick capped with a brown stone coping. The structural portion of the conservatory is built on these walls and the materials consist of steel, copper and glass, no wood-work being used excepting the sash around the sides. The roof is glazed with cathedral glass 1-4 inch thick, the lower side sash with clear plate glass the transom sash with obscure leaded glass. The copper work is left in its natural color, giving a beautiful effect especially at night when lighted with electricity. The interior of the conservatory is finished with a marble mosaic floor laid out in unique design; the interior walls below the sill and the exposed walls of the residence are faced in white enamel tile. Portable tables constructed with steel frames and slate bottoms are arranged around the sides of the room and the heating is effected by a low pressure hot-water apparatus, with radiators located under the tables. Ventilation is furnished through the roof, also around the sides, and all sash are operated by an apparatus of special design. The entire structure is devoid of the ordinary greenhouse effect, resembling more an extension to the drawing room. Burnham, Hitchings, Pierson Co. were the architects and builders.

Eucharis Amazonica

Eucharis Amazonica, being of easy culture under glass and producing as it does under proper treatment an abundance of beautiful white flowers, is so admirably suited for use as pot plants for decoration or for cut flowers, that it is a wonder it is not grown more extensively than it is.

Eucharis does almost equally well when planted in a bench or potted, but growing them in pots gives better control as regards the time of flowering and their protection from thrips and green fly both of which persistently attack them. When *eucharis* is wanted to flower in winter the roots should be given a season of rest when but little water is necessary. In potting great care should be given to the handling of the roots so that none get broken, at the same time removing all the old soil safely permits, repotting with a rich compost of fibrous loam, rotted manure, leaf mould and sand.

When possible the pots should be placed on a bench where bottom heat is available and the temperature in the house not much under 70. While growing vigorously they require careful and copious watering and occasional stimulating with liquid manure. They have to be syringed constantly to be kept clean and in good condition.

Eucharis delights in an abundance of moisture and is seldom injured by too high a temperature.

Gardening

Although within the last twenty years gardening as a pursuit and profession has advanced with bounds undreamed of even by the most ardent enthusiasts, still there is yet open a field wider by far and more fertile for the intelligent and industrious young men of the present and rising generation to engage in.

Sometimes alluring prospects of success create within us a feeling of over-confidence—an unwarranted reliance on our own resources. Doubtless good qualities provided that along with them we possess the knowledge and experience always necessary as convincing agents. A thorough knowledge of gardening is not acquired in a few years, and by but few in a life time, but our opportunities nowadays are so vastly superior to those of a former generation for gaining an insight into our profession that we have no excuse if, by not taking due advantage of these opportunities, we are not classed among those who survive as the fittest.

While experience is the sternest and soundest teacher of gardening as of all other professions, intercourse and exchange of ideas are absolutely necessary in order to keep up with the march of progress and, while personal intercourse is always beneficial, the horticultural press of the present day affords a medium for the expression of ideas that no young man should be without. I emphasize "young man" because it is while we are still young or comparatively young that we are most susceptible to the influence of the teaching of those who by their own successes add weight to what they teach, besides giving us reason to hope that by applying their rules to our own conduct we may ultimately succeed as they did.

David McIntosh.

The American Beauty

HOW TO GROW "SPECIALS" AND PLENTY OF THEM.

As in the culture of any other specialty, so in the successful growing of American Beauties, condition of soil, differences in climate, etc., have a material bearing upon practice. But there are some general rules that, intelligently followed, will do much toward insuring good results in all cases. If the roses are young stock we will assume that they have been planted in May or not later than June 15, and, if two-year-old stock, that they have been rested for a period of ten days to two weeks in June. Your stock will have taken good hold of the soil by end of August, will have thrown up good canes, and by September you are letting a few buds come and if you are cutting some fourteen-inch to two-foot stock by the beginning of October you are doing well, getting a large-sized plant, soil full of roots, and looking for feed.

Now comes the most serious question—namely, how and what and when to feed? Lots of growers are afraid to feed too early, thinking that the manure and bone meal they put in the soil at planting time has not been eaten up yet. But that is a mistaken idea. I claim that as soon as you commence to cut roses from plants they want feed. Of course we disbud early in the season. I don't call that "cutting roses" at all as the bud is cut off when it shows color, and before it take any strength away from the plant, but to get back to the feed question, by end of August you have good sized plants big enough to let them run to flower. Then is the time to commence feeding; weak cow-liquid at first, I think the best, about once a week, then stronger and oftener but do not overdo it; anyone who watches his stock can

easily tell by the foliage if feeding too heavy; it tells first almost in every case on that.

By October your soil has gone down one to two inches in bench, if on raised or solid benches. Now is a good time to give a little top dressing. The way I put this on is a sprinkling of blood and bone or pure bone meal first (and there are many ways of putting on this to get best results), then about one inch of well-rotted cow manure chopped up fine and then a half-inch of good soil on top of this which with careful watering makes a good mulch and at this time that is where you get your large buds and good foliage. Of course when we mulch we manure water only once a week but before the mulch goes on we were manure watering twice a week; that is, on good growing, healthy Beauties one year or older. For tea roses, I say soak the feed to them after beginning to cut flowers in quantity but at all times keep an eye on the foliage to see that you don't overdo it. Good common sense and judgment goes a long way in the production of good flowers.

There is another thing to be considered about now. One house or two will not be in very good crop; that is, you are not cutting a quantity of flowers from it. It is good policy, I always find, to let up on the feed of such for a short time until you see them breaking and throwing out strong shoots but when roses are showing plenty of bud then is the time they want lots of feeding to keep up their vitality.

Wm Scott

Morton Grove, Ill.

British Horticulture

MESSRS. KELWAY AND SON'S PAEONIES

In recent years the pæony has gradually extended the circle of its admirers, and this enhanced popularity is largely due to the improved varieties of merit which Messrs. Kelway and Son, of Langport, Somerset, have sent out. When the firm first directed their attention to this attractive subject there were but few varieties in cultivation. Many years of careful selection and hybridization have enabled Messrs. Kelway to produce a comprehensive collection of all shades of tint. From six to a dozen new varieties are brought out each year. The fact that the herbaceous pæonies can be grown anywhere and with the greatest ease has made them welcome in most gardens, while they are found suitable either in the villa garden or the spacious pleasure. They show up well singly, in groups, borders, or planted in grass. Among the newer ones are Lady Romilly, flesh tinted; Mrs. Groyne Lewis, white and scented; Lady Curzon, cream colored centre petals, with white guard petals; Mountbank, pink guard petals and

lemon-colored centre; Moonlight, pure white. Messrs. Kelway's floral triumphs have appeared to advantage in the United States. At the Chicago exhibition in 1893 they secured a medal and four diplomas, and last year at St. Louis they were awarded a gold medal, besides many awards in Britain. They hold the record as regards the number of first-class certificates and awards of merit granted to a British firm for improved hardy perennials.

CHRYSANTHEMUMS FOR MARKET

Chrysanthemums are a leading feature at the nurseries of Messrs. G. Prickett and Sons, of Enfield Highway, near London. On my visit recently I inspected their stock of from 60,000 to 70,000 plants in pots. Immense quantities of bloom are cultivated for the Covent Garden market. The head of the firm is a skilled grower and raiser and for many years has been prominently associated with the National Chrysanthemum Society. A high standard of excellence is attained at the nursery. The plan adopted is to receive a good show of medium size blooms. Rigid disbudding is not adopted, the plants being encouraged to develop a

dozen to eighteen flowers of fair size on each plant. In the height of the season the brilliant masses of bloom produce a brilliant effect in the houses. The season for cutting begins in October, when large batches of *Soleil d'Octobre*, a canary yellow in demand, and *Bronze Soliel d'Octobre*, a canary yellow in demand, the firm some years ago, are sent to their stand at Covent Garden flower market. The season is continued until January. The other varieties grown in quantities are *Mdlle. Theresa Panckoucke*, *Viviani Morel*, *Letrier*, *Niveus*, *W. H. Lincoln*, *Ivory*, *Western King*, *Petite Ami*, *Market Red*, *Mrs. Barkley*, *Lady Hannan*, *Source D'or*, *Belles of Weybridge*, *Lady Roberts*, *Margerie*, *Edith Pagram*, *A. J. Balfour*, *Framfield Pink*, *Tuxedo*, etc. The plants are remarkably healthy, and on this point Mr. Prickett remarked: "We have had black fly in the houses, but this pest was destroyed by means of fumigation. We have never had any rust among the plants. Some of the cuttings received from other nurseries are sometimes affected, but every precaution is taken to clean them and prevent the introduction of the disease."

SOME NEW SPORTS

Messrs. Prickett have been very fortunate with the sports obtained from *Soliel d'Octobre*. The bronze one has been extensively taken up by the trade, and is still in great demand. The firm have now brought out *Terra Cotta Soliel*, which has received an award of merit from the Royal Horticultural Society, and the brick-red bloom is likely to prove serviceable for market work. Another sport has been named *Prickett's Octobre*, this being of a somewhat lighter shade than the terra-cotta one. This has been certificated by the National Chrysanthemum Society. A good stock of plants is available and orders will be executed before Christmas. A number of new varieties are being tried at the nursery. Of these Mr. Prickett spoke very highly of *Money Maker*. This is a new Japanese variety, introduced by Mr. H. J. Jones of the Ryecroft Nurseries, Lewisham. The name was selected from the opinions expressed by market florists that it will be a profitable variety. The imposing pure white blooms stand erect, and they are well suited for decorative work besides travelling well. A first-class certificate has been granted by the National Chrysanthemum Society. Mr. Prickett, sen., has had considerable experience as a judge at the autumn shows. In answer to my inquiry as to the progress made in chrysanthemum culture he stated: "There is no doubt that a great advance has been made in the culture of chrysanthemums in recent years, and this is noticeable at the shows. The movement initiated by a London paper in distributing chrysanthemums among the children of London will have a good effect. The great variety of blooms in commerce has also had the effect of further popularizing the flower."

W. H. Adsett.

London, Eng., Nov. 24, '05.

Rose House Wisdom

It isn't often I can spare the time but when I do I like to take a trip around and see my brother florists, greet old acquaintances and make new ones when possible, exchange views, and learn "how to do it," and how not to do it. Not long ago I visited a place where the roses *Brides* and *Bridesmaids*, had been cut back to within eighteen inches of the ground. All would probably have gone well had they been pruned earlier in the season, but the pruning was delayed, I was told, until the latter part of September. I am not in favor of such late pruning of *Teas*; I find about the middle of June or July 1st to be the ideal time when cut back so hard. Syringing can be done more often, which swells the dormant eyes and brings delight to see them breaking. We have had the strongest wood and the best flowers from such plants.

We tried a new way this year which would make many a rose grower shake his head. After resting some plants they were pruned back to within 6 to 8 inches from the graft, all soil shaken off and planted like hybrids, in three inches of soil on a bench. The results were satisfactory in every way; we have had a continuous supply of good stems and flowers in proportion. Plants treated this way take more feeding for they throw out an abundance of new roots and seem to be always hungry and there is an absence of brush on them, every shoot seeming to develop a flower.

Let us all make a graceful bow to the rugged youngster, *HORTICULTURE*, on the attainment of its first birthday. May its shadow grow more prominent, and the years roll lightly over the editor. May he be long spared to wield his pen and give us his ripe experience in matters in which we are all interested.

So may the auld year gang out moaning
To see the new come laden groaning
Wi' double plenty o'er the loaming
To thee and thine,
Domestic peace and comforts crowning
The hail design.

Robert Morrison



Watch for our next issue. It will present something of especial value. Now is a good time to renew your subscription. We hope to double the list for next year. Everybody help.



HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, Editor and Manager.

How can we improve?

We acknowledge with hearty appreciation the occasional suggestions and kind counsel which good friends have contributed during the past year, to which we are indebted in no small degree for the measure of success attained thus far. We would welcome much more of it and our readers are all cordially invited to suggest how in their judgment HORTICULTURE may be made more valuable to them in any department.

Something for advertisers to consider

The results of advertising based superficially on gross circulation often upset all theories. The reason for the very gratifying returns realized by many of HORTICULTURE's advertisers from the very beginning is easily explained when the class of readers this paper appeals to and reaches is taken into consideration. A magazine which bases its claims to confidence and support on the high quality of its reading matter cannot fail to attract the attention of discriminating and enterprising men and this is the clientele that advertising dealers will always find most profitable. Offer the right goods in the right way in these columns and you will have no reason to find fault with the returns.

Regulating flower prices

An unfortunate characteristic of the flower trade is the suddenness with which values advance or recede and the extreme limits to which these fluctuations so often extend. When a close cut is followed by storm and a sharp fall in temperature as was the case Thanksgiving week and customers learn that they must pay double the price they anticipated for their flowers, dissatisfaction is sure to crop out and hostile criticism of the dealer and his business is bound to ensue. The sudden demoralization of values consequent upon a combination of full crop and a few warm sunny days is equally deplorable in its results, although the injury comes through very different channels. It is not easy to suggest a remedy in either case; most people with any adequate knowledge of the situation will agree that there is no remedy. The old notion that

any individual or combination of individuals can dictate prices has no standing, in present conditions. A slight measure of control might, however, be exercised by the large growers who, by a judicious restraint on the cutting and shipping of stock might make the supply more elastic and the prices somewhat more uniform. Wisdom in this particular can only be acquired through a knowledge of the market and the influences affecting it and an implicit confidential understanding with the commission dealer through whose agency the goods are sold. Greater stability in prices with more gradual changes when such do occur, would be a vast benefit to the flower trade, from all standpoints, and every possible step in that direction should be taken.

Choose your officers with discretion

Many florists' clubs and horticultural societies will elect their officers this month and it will be well to bear in mind when exercising this function that the quantity and quality of the success of the coming year depends largely on the men selected as standard bearers. Much is, of course, conditional upon the spirit pervading the membership, for little of any real value can be accomplished without unity of purpose and general loyalty to the organization but these essential qualifications can be either fostered or discouraged at the option of those holding official position and the amount of really unselfish effort which its officers are disposed to make on behalf of an organization are, as a rule, the best gauge of its prosperity. Men of pugnacious propensities whose business careers are punctuated with contentions are dangerous men to hold official positions in these semi-social bodies and they very seldom leave their charge at the end of their term in as good shape as they found it.

Where Horticulture stands

It has been frequently asserted that florists take no interest in the serious literature of their profession and that trivial small talk of the village gossip type is all they care to peruse in a paper devoted to their craft. HORTICULTURE started business with the belief that this idea was a fiction and, to the credit of the great and growing floral profession, the outcome of the year's trial shows that HORTICULTURE was right. That this journal has fairly leaped into the affections of the craft and already attained a standing which might reasonably have taken years to reach is a remarkable record the happiest feature of which is its vindication of the intelligence of the American florist and gardener. In the light of this experience HORTICULTURE enters upon the second year of its existence with eager confidence and with well-considered plans for advancement on the lines originally laid down. We have no ambition for mere bigness, hoping rather that our name and fame may spread solely on the intrinsic, permanent value of our contents to the great, influential body of intelligent readers whose tastes we hope to meet and whose business interests we wish to serve. On these grounds HORTICULTURE seeks the right of way.

AFTER ADJOURNMENT.

We are glad to learn of the convalescence and approach of full recovery of our genial Chicago friend Phil J. Foley. May his substantial shadow never again shrink!

The Minnesota Horticulturist for December is full of useful information for the orchardist. This magazine is issued monthly under the management of the Minnesota State Horticultural Society at Minneapolis, Minn.

Boston has now an opportunity to appreciate the full beauty of southern wild smilax, for Robinson & Co. are distributing a special brand of unprecedented glossiness and brilliancy of color, the best ever seen in this market.

Good news from Reed & Keller who declare the present to be the busiest year they have ever had since their establishment in 1872, and that the supply of folding balls is already exhausted. HORTICULTURE'S first year is again in evidence.

Treasurer C. E. Richardson, of the Mass. Horticultural Society, desires us to say that the statement recently published in the local and horticultural papers to the effect that he would assume the custody of funds subscribed for the Ephraim Bull memorial was incorrect, as he had not and could not accept the honor.

The St. Andrew's banquet in Boston was honored by the presence of Mr. and Mrs. Andrew Carnegie and Mr. W. R. Smith among the distinguished invited guests. Making comparisons, Mr. Smith gave the Boston affair preference over a similar celebration in New York a few nights previous, because flowers were liberally used on the tables in Boston and further because of the presence of the ladies. Mrs. Carnegie was especially charmed with the new rose Wellesley and the large bunch of this beautiful variety which adorned the guests' table, accompanied the lady to New York on the following morning.

NEWS NOTES.

A very successful reception was given by the Hales upon the opening of their new store in East Orange, N. J., last week.

The Chamber of Commerce of Colorado Springs, Col., has taken a stand against the Christmas tree cutter. More than 100,000 evergreen trees were used last year throughout the State for this purpose.

A new store of eight stories being erected at the corner of Franklin and Hawley Streets, Boston, is for Jones, McDuffee & Stratton, who expect to occupy it in March. It will then offer one of the largest and most comprehensive stocks of crockery, china and glass, including vases and other florists' ware of every description, on this continent.

The firm was organized in 1810 ninety-five years ago, by Otis Norcross & Co., who were succeeded about 30 years ago by the present firm. Few mercantile houses can claim ninety-five years of uninterrupted progress.

CATTLEYA LABIATA.



This regal florists' flower needs no introduction to our readers nor words of praise. It speaks for itself wherever it is given a chance. The accompany-

ing illustration shows a house of labiata as grown by Edgar Knight, gardener to C. Moore at Hackensack, N. J. Who can beat it?

PERSONAL.

Mrs. W. H. Snyder of Toledo, O., has taken charge of the retail store of the Wauseon Floral Co. recently opened at Wauseon, O.

OBITUARY.

Michael Kirby, well known for many years as a jobbing gardener and florist about Boston, died on December 1, aged 67 years.

On Saturday, December 2, Mrs. Hannah H. Allen, wife of C. L. Allen and mother of W. S. and Chas. H. Allen. The funeral took place on December 5 at Floral Park, N. Y.

Charles G. Hall, treasurer of Hitchings & Co. up to the time the consolidation with the Lord & Burnham and Pierson Sefton Companies, died at his home in Montclair, N. J., after a protracted illness, on November 29. Mr. Hall was a brother-in-law of Mr. Hitchings. He enjoyed the respect and esteem of his business associates in a marked degree, and his death is sincerely mourned. One daughter survives him.

John Morris, familiarly known as "Alderman Morris", died on December 4, at his home in West 10th street, New York City. Mr. Morris had been for many years a florist at Jefferson Market and well known in the trade as a man of sterling character, decided and aggressive views, generous traits and strong individuality. The flower market which was conducted for several seasons at Union Square was established through his efforts while a member of the board of aldermen. He was a member of the New York Florists' Club and up to within two or three years was a regular and enthusiastic attendant at the meetings. His age was 70 years.

On the seventy-first birthday of C. F. Seitzer of Utica, N. Y., which occurred on November 22, his fellow florists surprised him with substantial presents and spent a pleasant evening at his home.

DEAR IS AULD BOSTON. O!

Dear is auld Boston, O!
Dear is auld Boston, O!

The dearest spot of a', I trow,
Is Boston by the braid sea, O!

She's aye a queen wi'out a stain,
The pride of a' the Muses, O!
A' lo'e her as their vera ain,
Whilk lo'e she ne'er refuses, O!

Chorus: Dear, etc.

The sunlight glints on ev'ry han',
An' on her gowd crown tarrics, O!
An' to a man, the Boston clan
Some bit o' sunshine carries, O!

Chorus: etc.

They say there's mony a bonnie spot
Mair fair, but I maun doubt it, O!
Where deft han's keep the parritch
hot,—
Wow! wha can live wi'out it, O?

Sweet is the parritch, O!
Sweet is the parritch O!
I lo'e it best of a', I trow,
Save beans weel baked in Boston, O!
J. W. in Boston Transcript.

NEWS OF THE CLUBS AND SOCIETIES

MASSACHUSETTS HORTICULTURAL SOCIETY.

The Garden Committee of the Massachusetts Horticultural Society announces its list of awards for the year as follows:

For the best house of chrysanthemums grown for specimen blooms, first prize, Merion F. Plant, Groton, Conn.; Thomas W. Head, supt.

For the best garden of peonies, not commercial, first prize, Dr. Charles S. Minot, Milton; second, Dr. Robert T. Jackson, Cambridge.

For the best vegetable garden, first prize, Col. Frederick Mason, Taunton; E. L. Lewis, supt.; second, Taunton Insane Hospital, Ed. Parker, supt.

The following special additional awards are made:

George F. Fabyan, Brookline, James Stuart, gardener, cultural certificate for splendid condition of his greenhouse.

Boston Park Department, J. A. Pettigrew, supt., honorary mention for spraying demonstration against the brown-tail moth.

Frederick S. Mosely, Newburyport, honorary mention for his successful efforts in landscape forestry.

Robert Roulston, Roxbury, bronze medal for his flower garden on Burrell street.

Thomas C. Thurlow & Co., West Newbury, honorary mention for their system of shelter belts and wind-breaks.

The Mrs. J. L. Gardner Estate, Brookline, is reported upon favorably for the Hunnewell prize for the second of the three years' test required, and the Morton F. Plant Estate at Groton, Conn., receives its first year approval for the same prize.

There has been no entry this season for the special prizes of \$50 and \$25 for the best kept small estate of from one to three acres. It is the first year of this prize, and as it becomes better known it will doubtless attract more attention.

The members of the Garden Committee are: Oakes Ames, chairman; George Barker, W. N. Craig, A. F. Estabrook, A. H. Fewkes, C. W. Parker, J. A. Pettigrew, W. P. Rich and H. P. Walcott.

WM. P. RICH, Secretary.

A SMOKER AT PITTSBURGH.

Like all the social affairs of the Pittsburgh and Allegheny Florists' and Gardeners' Club, their smoker on Tuesday evening, Dec. 5, was a success.

This club has a whole-hearted way of doing things. If it is a business meeting and an exhibition of flowers, the different flowers are taken up, passed from one to another around the room and commented on; the grower is questioned as to his methods, and every thing possible done to bring out points of interest. There is no smoking and all is attention and interest. But when the club has a Smoker it is always as it was Tuesday evening; you can hear the music through the smoke, and the monologue man, and the funny songs, but you can't catch the magician in his tricks, or see anything better than the amber liquid that is going to make Cincinnati more famous than Milwaukee, and

when you get home the fragrance accompanies you.

A rousing good outing in the summer with the wives and children along; a smoker in the winter, with cards, music, refreshments and entertainers; the other meetings of the year business and professional; this is about the proportion of pleasure to business under which this club has increased to a membership of 150, and become one of the strongest organizations of its kind in the country.

H. P. JOSLIN.

CHRYSANTHEMUM SOCIETY OF AMERICA.

The Work of the Committees.

Chicago, November 18, 1905.

No. 76, white, of Mrs. H. W. Buckbee, exhibited by Guardian Angel Florist, Chicago, Ill., scored 84 points commercial sale.

Boston, Mass., November 25, 1905.

No. 49, bright yellow, sport of Yellow Eaton, Jap. Inc., exhibited by Jno. A. Macrae, Providence, R. I., scored 90 points commercial sale. Differs from Yellow Eaton in being a symmetrically incurved Japanese, and of a deeper yellow.

Chicago, Ill., Nov. 25th, 1905.

No. 24 (03), light yellow, Omega, exhibited by F. Dörner & Sons Co., Lafayette, Ind., scored 91 points commercial sale.

The varieties recently exhibited before the committees by Nathan Smith & Son, Adrian, Mich., under number have been named as follows:

No. 24-13-03 shown at Cincinnati has been named Andra, and No. 26-1-03 shown at Cincinnati has been named Vennetta.

FRED H. LEMON, Secy.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

A field day will be held at the greenhouses of William Nicholson, Framingham, on Saturday, December 16. Members and friends are asked to take either the 12.45 or 1.15 electric cars on the Boston and Worcester street railway at Park Square.

Active preparations are being made for ladies' night at the next club meeting on December 19. No one can afford to miss the special attractions on this occasion, and all records for attendances will once more be easily broken. W. N. CRAIG, Secretary.

ELBERON HORTICULTURAL SOCIETY.

The regular meeting of this society was held on Monday, Dec. 4. Seven new members were admitted. A paper was read by H. Hall on "Fruit Culture Under Glass." Among the exhibits of the evening was a vase of Robert Craig carnations, sent by the Cottage Gardens Co., which was awarded a certificate of merit.

LENOX HORTICULTURAL SOCIETY.

At the annual meeting of this society held on December 2, the following officers were elected for the coming year: President, S. Carlquist; vice-president, F. Heeremans; treasurer, A. McConnachie; secretary, George Foulsham.

THE NEW JERSEY FLORICULTURAL SOCIETY.

The regular monthly meeting and annual election of officers took place on December 1. The floral display of the evening consisted of Cypripedium insigne, plants having twenty blooms each, from the collection of William Barr of Llewellyn Park, grown by Arthur Bodwell; Cattleya Trianae and C. Trianae alba from Thomas Jones of Short Hills, entered not for competition; carnations from William Runkle, grown by D. Kindsgrub, and Sydney and Austin Colgate, grown by William Read; roses from John Crosby Brown, grown by Peter Duff. George von Qualen, Arthur T. Caparn and Charles Ashmead were the judges. A balance of \$63.35 was reported from the fall exhibition. The election resulted as follows: D. Kindsgrub, president; Arthur T. Caparn, vice-president (re-elected unanimously); Joseph B. Davis, secretary; William Reed, treasurer. Malcolm MacRorie, the retiring treasurer, positively declining re-nomination, an engrossed vote of thanks for nearly ten years of valuable service was accorded him as also the retiring secretary, William Bennett. An arbitration committee of Peter Duff, William Phillips and Joseph A. Manda was elected and George von Qualen and John Hayes appointed.

JOSEPH B. DAVIS.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

To members of the S. A. F. & O. H.:

At the suggestion of Mr. E. G. Hill, upon whose motion the project of a National Flower Show next March was undertaken, I have, after consultation with members of the executive committee and President-elect Kastling, decided that it is not expedient to attempt to hold a National Flower Show in March, 1906.

It is Mr. Hill's contention, and to this our executive committee agrees, that the time is too short between now and March to prepare suitable exhibits, no schedule of premiums having as yet been issued.

It is expected that the committee appointed to secure the \$10,000 guarantee fund will continue its work and that this basis for carrying out such a show for 1907 will be secured.

J. C. VAUGHAN, President.
Chicago, Dec. 6, 1905.

TARRYTOWN HORTICULTURAL SOCIETY.

The regular monthly meeting of the above society was held on Tuesday, November 28. The large number of nominations showed increasing interest very encouraging to the society. No doubt the recent very successful flower show was a helpful medium in prompting quite a few of the ten whose names were proposed to become members of the society.

The principal business of the evening was the nomination of officers. The election takes place at the December meeting. A committee was appointed to make arrangements for the annual dinner with instructions to report at next meeting. Alfred Kneisel, Dobbs Ferry, N. Y., was awarded a first-class

VICTORY

THE BEST SCARLET CARNATION—Being remarkably prolific

certificate for a new fern, a seedling from Pieroni. The variety is a very promising one, being narrower in frond and more erect in habit than the parent.

The secretary announced the donation of two cups to be competed for at the next fall show, one by Mrs. Geo. Lewis for the best two bush chrysanthemum plants, and one by F. R. Pierson Co. for twelve best blooms of chrysanthemum Glenview.

WM. SCOTT, Cor. Secy.

CLUB AND SOCIETY NOTES.

The florists' bowling club of Louisville will hold a meeting on Tuesday evening, December 12.

The forty-eighth annual meeting of the Missouri State Horticultural Society will be held at the Coates House, Kansas City, Mo., December 28, 29, 30.

The silver cup for best novelty plant at the Los Angeles, Cal., exhibition which closed November 4, was won by Edward Kirby, gardener to Lawrence Hurlburt, with *Nicotiana Sanderae*.

At the annual meeting of the New London County Horticultural Society on December 1 the following officers were elected: President, Thomas W. Head; vice-president, Rev. Neilson P. Cary; secretary, J. Lindsley; financial secretary, P. Wilson; treasurer, John P. Slive.

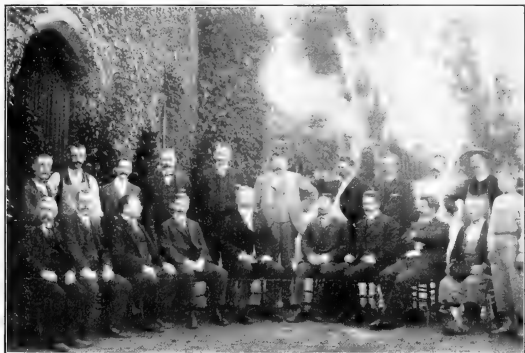
At the annual meeting of the trustees of the National Association of Gardeners in New York City on November 18 the following officers were elected: President, John M. Hunter; vice-presidents, James Holloway, John Shore, Wm. Doogue; treasurer, John Whalley; secretary, W. E. Maynard.

At the Shreveport, La., flower show the four silver loving cups for cut flowers were won as follows: For single specimen rose, Mrs. J. J. Green; collection of roses, S. M. Watson; collection chrysanthemums, Dr. R. H. Gullledge, Gilliam; chrysanthemums, professionals only, Tipton & Hurst, Little Rock, Ark.

The St. Louis Flower Show committee held its final meeting at the Missouri Athletic Club and finished up their work. After paying all bills and prizes the treasurer still had a balance on hand which will be divided at the next club meeting among the guarantors.

All club members will be notified to be present at this meeting to sign the constitution as charter members of the corporation of the club. The meeting will be held on Thursday, December 14th at 2 P. M., at Strass-

EMPLOYEES OF F. SANDER & SONS.



Sitting, from left to right: Richard Hinde, foreman orchid houses, Bruges; Alfred Dimmock, travelling salesman in America; Joseph Godseff, director, St. Albans; Fred K. Sander, Fearnley C. Sander, Louis L. Sander; Adrien Lefebvre, travelling salesman in France; Siske De Meyer, oldest employee at Bruges.

Standing, from left to right: Hypolite Colpaert, foreman packing department; Auguste Van Halme, foreman palm culture; W. Gott, grower of seedling orchids, St. Albans; James MacNab, travelling salesman in England; Ture Mellstrom, travelling salesman in Sweden; Arthur Glibert, manager at Bruges; Joseph Tropp, travelling salesman in Germany; James Kropp, travelling salesman in Austria-Hungary; Piet Van den Berg, foreman propagating house, Bruges; Jules Van Kerrebrouck, foreman azalia culture; Michael Somers, azalia boy, knows 100 varieties by looking at the leaf only.

berger's Hall, Grand and Shenandoah Ave.

The Norfolk Horticultural and Pomological Society was organized on November 8 with the following officers:

Secretary, W. A. Edwards; Asst. Sec., A. S. Seeley; Treas., W. Tait. Other officers will be selected later. One of the objects of the body will be the promotion of chrysanthemum shows.

THE COTTAGE GARDENS

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., . . . QUEENS, L. I.

SEED TRADE.

Incorporation papers for the Ohio Seed Company, capital \$50,000, of which \$25,000 is paid up, have been filed. The incorporators are Lattimer Thompson, Herman Philipps, Karl Matheis, Charles Friedman and U. Grant Denman. The purpose of the new house is to enter the whole-sale trade, handling clover, timothy and other field seeds. Mr. Philipps, who has been prominent in the organization of the new company, is a member of the Toledo Produce exchange and is well known in the seed world through his former connection with the Henry Philipps Seed & Implement Co. of Toledo.

Henry Nungesser & Co., in their latest wholesale list of grass and clover seed have this to say:

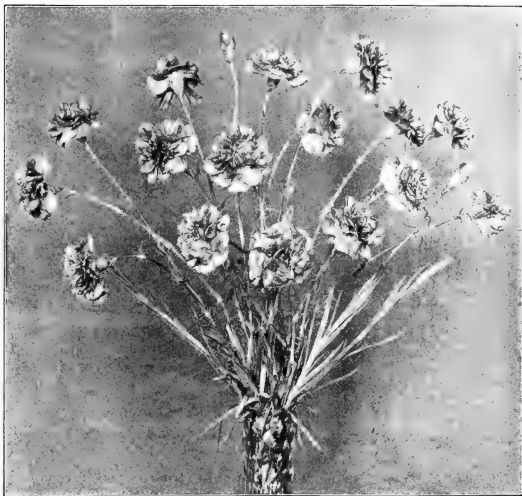
The reports from the Alfalfa districts are very irregular. America, Italy and Austria have very little seed. However, France in some sections, has a good crop, but on account of unfavorable weather during harvesting, qualities are not up to the standard, especially as to color. We may also state that Germany does not produce any Alfalfa seed whatever. Regarding our offering free of dodder, we will state that at least 95 per cent. of all the Alfalfa harvested contains more or less dodder, and in offering Alfalfa it is the custom the world over, when not especially stated, that Alfalfa is not cleaned of dodder. We are buying some under the guarantee "free of dodder," and some lots we buy in the natural state, which we clean ourselves. However, it must be distinctly understood (as is the custom with the most prominent control stations in Europe), that a guarantee under "dodder free" does not mean "absolutely free of dodder." An occasional grain of dodder will always be found in Alfalfa, as so far, it has been impossible to have it absolutely free from dodder. A good business has always been done in Alfalfa, and although the market is at present somewhat easy for medium and low qualities, the fine qualities are held very firm, and are getting very scarce.

We understand that there is Alfalfa offered, mixed with yellow trefoil and burr clover. We, therefore, recommend when you buy your Alfalfa, to have it guaranteed free of trefoil and burr clover, and any wholesale dealer is able to give this guarantee.

COMPETITION IN POTATOES.

Consul Mahin, of Nottingham, England, reports the result of a potato-growing competition held in Derbyshire the past season. Two pounds of Duchess of Cornwall seed were supplied to each member of the Hallam Fields Garden Association. Prizes were given for the largest crops and for best quality. The first prize-winner succeeded in raising 132 pounds of potatoes from his 2 pounds of seed, cut into 41 sets. The time of cultivation was one hundred and forty days. The average weight per set was 3.21 pounds, the proportion of increase being 66 to 1. The second prize-winner raised 122 pounds, and the third 121.12 pounds, the remainder of the competitors falling behind by stages of 10 pounds until 26 pounds was reached as the lowest weight. The

HANNAH HOBART, CALIFORNIA'S PRIDE.



Hannah Hobart, introduced by J. H. Sievers & Co., the leading florist firm on the Pacific Coast, and put to the test under the most critical judges, has won its place as a carnation possess-

ing the highest qualities as an exhibition and commercial variety. In the photograph herewith reproduced its desirable points are well displayed. The success which has attended its dissemination has been well won.

average of the whole competition was 70 1/4 pounds from 2 pounds of seed. The greatest produce was equal to 43 tons per acre. The combined product of the 28 competitors was equivalent to 25 1/3 tons per acre. Ten tons per acre is generally considered a good yield. The average yield of the 700,000 acres of potato fields in this country is 6 tons per acre.

LIST OF PATENTS.

Issued October 31, 1905.

- 803,088. Weeder and Cultivator. Clarence I. J. Barker, David City, Nebr., assignor to The Barker Mfg. Co., David City, Nebr.
- 803,176. Fruit Picker. Cornelius B. Hyson, Everett, Wash.
- 803,308. Tree Holder. Rudolph A. Reik, Fond du Lac, Wis.
- 803,447. Hoe. William A. Sparks and William P. Kingsbury, Parkersburg, W. Va., assignors to the Kanawha Implement Co., Charleston, W. Va.
- 803,496. Lawn Mower. William Marshall, Coshocton, Ohio.

Issued November 7, 1905.

- 803,662. Orchard-Heater. Charles S. Brown and Frank M. Bremiller, Ulica, N. Y.
- 803,741. Corner Shield or Protector. Ole Carlson, De Kalb, Ill.
- 803,796. Fruit-Clipper. Charles F. Streight, Riverside, Cal.

- 803,953. Pruning Implement. Geo. B. Wright, Leesdale, Pa., assignor of one-half to T. W. Wright, Leesdale, Pa.
- 804,092. Apparatus for Draining Marshes and the Like. John Brants, Tampico, Ill.
- 804,130. Spade Attachment. Eugene C. Jewett, Eagle Grove, Iowa.

Issued November 14, 1905.

- 804,335. Weeder or Cultivator. Frederick L. Novotny, Rushville, Nebr.
- 804,426. Pruning Implement, Levi H. Mullen, Birchtree, Mo.
- 804,492. Folding-Fruit-Shipping Rack, James W. Mills and Elmer E. Izer, Pomona, Cal.
- 804,625. Land-Leveler, David A. Savage, Mayoworth, Wyo.

A NOTABLE OPENING.

On Monday evening, December 11, the new store of John Breitmeyer & Sons, at Detroit, Mich., will be opened for inspection by the friends of this enterprising and popular firm. "That's all"

Brockton, Mass., has appropriated \$20,000 for parkways upon the request of the park commissioners.

Two of the greenhouses recently erected by A. C. Burrage at Halifax, Mass., collapsed in the recent gale. The loss is estimated at between \$10,000 and \$15,000.

DREER'S PLANTS FOR FORCING

Azalea Mollis

For early and late forcing Azalea Mollis is rapidly gaining favor. Easily forced at a minimum cost for heat and labor, they are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, \$4.50 per dozen; \$35.00 per 100.

Deutzias For Forcing

Strong two-year-old field grown plants, suitable for 6-inch pots: Gracilis, 75 cents per dozen, \$6 per 100; Gracilis Rosea, \$1.00 per dozen, \$8.00 per 100; Gracilis Lemoinei, \$1.00 per dozen, \$8.00 per 100.

Forcing Lilacs

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, \$6 per dozen, \$45 per 100.

Rhododendrons For Forcing

These are being used more extensively every season, and this year with Easter at such a very late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy well shaped plants covered with buds. 20 to 24 inches high, \$1.00 each, \$11.00 per dozen, \$90 per 100.



Crimson Rambler Roses

A grand lot of two-year-old extra heavy plants, the finest we have ever offered, just right for potting up into six and seven inch pots either for Easter flowering or for Spring sales, a very select stock, \$2.00 per dozen, \$15 per 100.

The Baby Rambler

Fine imported two-year-old English grown stock, \$3.50 per dozen, \$25 per 100. Also an extra fine lot of heavy plants in three inch pots, \$2.00 per dozen, \$15 per 100.

The New White Rose Frau Karl Druschki

This is really the first WHITE Hybrid Perpetual Rose introduced, snow white in color, of perfect form and remarkably free flowering. You will not make a mistake in including at least a trial lot with your Easter flowering stock.

Pink and White Maman Cochet Roses

We have a fine lot of strong field-grown plants suitable for potting up into five and six inch pots, which will make fine stock for retailing in Spring, \$1.25 per dozen, \$10 per 100.

For a complete line of seasonable stock see our current Wholesale List.

HENRY A. DREER, 714 Chestnut St., Philadelphia

Nicotiana Sanderae

Purple, Pure White, Pink, Dark and
Light Red, Crimson, Violet, Salmon

5 GOLD MEDALS

The collection contains 1000 seeds in 8 magnificent varieties. The annual of the century. Tens of thousands are praising the original form, and these new hybrids range in color from purest white to deep purple and carry their large, short tubed flowers very erect.

ALL PARTICULARS FROM THE WHOLESALE AGENTS:

Messrs. Henry A. Dreer, Inc., Philadelphia, Pa.
Messrs. J. M. Thorburn & Co., New York
Vaughan's Seed Store, Chicago



RUSSIAN LILY OF THE VALLEY

THE VERY BEST VALLEY FOR EARLY OR
LATE FORCING. USED BY THE BEST GROW-
ERS OF VALLEY FOR THE PAST 10 YEARS

Per 1000 \$15; Per 2500, \$32.50; Per 10,000, \$125

STUMPP & WALTER CO. 50 Barclay St. N. Y.

HOW TO GROW MUSHROOMS

My 24-pp. booklet on M. Cult., 10c. New supplement on outdoor culture, by Jno. G. Gardner, included. The plain truth and nothing but the truth. Mushrooms are profitable if properly handled. The art of properly handling has to be mastered like everything else. This booklet tells you how in a clear, practical way.
G. C. WATSON, 1614 Ludlow St. Philadelphia, Pa.

MAKERS OF PURE CULTURE TISSUE

COLUMBIA, ALASKA, BOHEMIA
**MUSHROOM
= SPAWN =**
Fresh Spawn Always on hand.
WRITE FOR PRICES
COCHRAN MUSHROOM & SPAWN CO.
811 CHEMICAL BLDG. ST. LOUIS, MO.

CHRISTMAS PLANTS.

First class stock, sure to please or money back. Ferns, 10-15 varieties, 2-12 to 3 inch., \$2.50 and \$1.50 per 100; \$22.50-\$40.00 pr. 1000. Primula, Chinese and Obconica Giant, fringed in bud and bloom, 5 to 5 1-2 inches, \$10.00 and \$12.00 pr. 100; Jerusalem Cherries, Dwarf specimens, 50-150 berries to pot, \$10, \$12, \$15 and \$20 pr. 100. Cyclamen Giganteum, all in bud, 3, 4 and 5 inch., \$5, \$8 and \$15 pr. 100. Asparagus Sprengeri, strong, 3 inch., \$2 pr. 100, cash.

Wanted, Mme. Sallerol Geraniums and Vines in exchange for Primula Obconica, Dracenas and Asparagus.

WM. S. HERZOG, Morris Plains, N. J.

Lilies, Japanese Plants

BAMBOO STAKES

SUZUKI & IIDA

31 Barclay Street, New York

GLADIOLUS

AUGUSTA AND WHITE AND LIGHT.

Sizes in both varieties runs to given measure below:

I. Size 1 1/2 and up.

II. " 1 1/2 and 1 1/4.

III. " 1 1/4 and 1 1/2.

We guarantee good sound bulbs.

Ask for prices. Address all correspondence to

ROWEEL & GRÄNZ, HICKSVILLE, L. I., N. Y.

BULBS

and PLANTS

Ralph M. Ward & Co.
2 West Broadway, New York.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

Seeds, Bulbs and Fertilizers BURNETT BROS.

101 West Street

Opposite Central R. Rd. Ferry, Liberty and
West Streets

NEW YORK

IN WRITING TO ADVERTISERS
KINDLY MENTION HORTICULTURE

Franklin Davis Nursery Co.

(INCORPORATED)
BALTIMORE AND RICHMOND NURSERIES
WHOLESALE GROWERS OF

General Nursery Stock

Offices: Baltimore and Paca Sts.
BALTIMORE, MD.

CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
HIGHTSTOWN, N. J.

**HELLER'S
MICE
PROOF
SEED
CASES.**

SEND FOR
CIRCULARS

Heller & Co.
MONTCLAIR, N. J.

Cabbage plants, Jersey Wakefield; all season succession, \$1 per thousand. Early and Late Flat Dutch Celery, Giant Pascal, Self Blanching and White Plume, \$1 per thousand. Cauliflower, Snow Ball, \$2 per thousand. Ten thousand rooted cuttings of Norway, the cracker-jack summer blooming carnation now ready at \$10 per thousand. Address Edward Woodfall, Glen Burnie, Md.

We have received for Victory, at every Exhibition the highest possible recognition.

FEAR NOT We Will Not Fall Down on ..VICTORY..

The most Brilliant Scarlet Carnation. The Fastest Grower. Largest Size. Requires only ordinary culture.

It has no surplus grass and every shoot produces a bloom. Its color is truly ideal, being a bright, glistening scarlet. As a keeper and shipper, Victory has no equal. At the numerous exhibitions held last season in various parts of the country, it outlasted all its rivals. Endorsed by the ablest and most reliable men in our profession. We invite you to inspect our facilities for supplying their rooted cuttings in good time and in first-class condition.

\$2.50 per doz. \$12.00 per 100. \$100 per 1000. 250 at 1000 rate.

All inquiries will be cheerfully answered and requests for blooms at exhibitions within reasonable distance of New York, promptly complied with.

Place your orders at once to insure early delivery.

A. J. GUTTMAN

The Wholesale Florist of New York
43 West 28th Street

C. WEBER

and **Lynbrook, L. I.**

Send all correspondence to 43 West 28th Street, New York City.

Telephone 1664-1665 Madison Square

Field Grown Own Root

ROSES

Right stock, put right to go anywhere. Over 100 varieties, both hardy and tender. \$50 per 1000 up. It will pay you to get our trade list, and it will pay you better to get some of our roses if you plant, pot or sell roses California Rose Co., Los Angeles, Cal.

Field Grown Roses, \$6 per. 100 3 to 4 feet high.

Crimson Rambler, Prince Albert, Baltimore Bells, Mdm. Planter, \$5 per 100. Climbing Souper, \$6.

Duchess Brabant and 100 other varieties.

Address WM. K. NELSON, Augusta, Ga.

Manetti Rose Stocks

A selected grade for Florists' use. Uniform in size. Well rooted. Sample free.

THOMAS NEEHAN & SONS, Inc.
Nurseryman, Box C, Oreshertown, Pa

PURE Canada Hardwood Ashes

The best, cheapest and most lasting fertilizer in the world.

THE JOINT BRAND IS THE BEST BY TEST

If you want fertilizer for the coming season write for information and prices to

JOHN JOYNT

LUCKNOW, ONTARIO, CANADA
Reference, Molson's Bank, Lucknow.

Two Years in a Greenhouse!

SALAMANCA, N. Y., October 21, 1905.

MINERALIZED RUBBER CO., NEW YORK.

Gentlemen:—Send me 50 feet of hose, same as before. My greenhouses are 125 feet long, with cement walks, and the Anchor Greenhouse Hose, which I purchased of you in 1903, has been dragged over these walks every day and is just commencing to give out. I am more than pleased with it and can truthfully say it has outlasted any hose I ever bought before.

Very truly yours, (Signed), W. L. FARQUHARSON.

WRITE FOR SAMPLE AND PRICE.

MINERALIZED RUBBER CO., New York

WALSH'S "LADY GAY"

The sensational rose at the Temple and Regents Park Shows, London, England, May 25 and June 1, 1905. Awarded Gold Medals.

Plants for forcing in pots. Prices on application, order now.

"WEDDING BELLS" in pots, strong plants from open ground, extra fine; suitable for Easter sales.

"FRAU KARL DRUSCHKE," the new white rose, and "KILLARNEY." My stock of these is large and of best quality. Excellent "ULRICH BRUNNER" for forcing.

All the leading Hybrid Perpetuals and Hybrid Teas. The new "Soleil d'Or," a grand forcing rose. Try it. Also Paeonies and Phlox.

M. H. WALSH

ROSE SPECIALIST

WOODS HOLE, MASS.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

FOREST TREE AND SHRUB SEEDS AND SEEDLINGS

Catalpa Speciosa, Black Locust. Nursery grown and collected seeds and seedlings

FOREST NURSERY AND SEED CO.

McMINNVILLE, TENN., R. F. D. 2

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

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NEW ROCHELLE, N. Y.

Tel. 515-J New Rochelle

Mgr. THE ROSARY FLOWER CO.

Tel. 2612 Mad. Sq. 24 E. 34th Street, N. Y. City

W. FROMOW & SONS - Bagshot, England

GOLDEN PRIVET, Spring 1906 delivery, for pots, window boxes, tubs and lawns, we offer at Bagshot, the hundred in sizes 12-15 inch, \$5, 15-18 inch, \$6.50, 18-24, \$9, 24-30 inch, \$12.50, 30-36 inch, \$16.50, and larger; also Standards. Foliage suits well for cut flower work. Trade list of ornamentals mailed to applicants by the American agents—

AUGUST ROLKER & SONS - NEW YORK

31 Barclay Street, or P. O. Box 752

We are booking orders now for grafted and own-root plants, for spring delivery of the beautiful rose

WELLESLEY

PRICES 2½ INCH POTS

OWN ROOT		GRAFTED	
Per 100	Per 1000	Per 100	Per 1000
\$10.00	\$75.00	\$20.00	\$150.00

**WABAN ROSE CONSERVATORIES
NATICK, MASS.**

—NEW ROSE—

Miss Kate Moulton

Write for full information, description and particulars of this grand new pink rose. To be disseminated March 1st, 1906.

It will interest ALL rose growers.

E. H. HUNT 76-78 WABASH AVENUE, CHICAGO

**LORRAINE BECONIAS
AZALEAS CYCLAMENS**

NOW READY. PRICES ON APPLICATION

W. W. EDGAR, WAVERLEY, MASS.

OH! WHAT A PITY!



AURACARIA EXCELSA.

Pots.	Height.	Tiers	Age	Usual price	Now
6 in.	35 to 40 in.	6-7	4 yrs.	\$3.00	\$1.50
6 in.	30 to 35 in.	5-6	4 yrs.	2.50	1.25
6 in.	25 to 30 in.	4-5	4 yrs.	2.00	1.00
6 in.	20 to 25 in.	4-5	3 yrs.	1.50	.75
5 in.	8 to 12 in.	2-3	2 yrs.		.40

Only a small stock left of the 40 cent size, no more than 5 sold on any one order. 50c. and 60c. sizes all sold.

AURACARIA EXCELSA GLANCA: these are very beautiful plants; no artist could paint them; you must see them in life! 6 inch pots, 23 to 28 inches high, 2 ft. across, 4 to 5 tiers, 4 yrs. old, usual price \$3.00, now \$1.50; 6 inch pots, 18 to 22 inches high, 2 ft. across, 3 to 4 tiers, usual price \$2.50, now \$1.25.

Ferns and Other Christmas Plants

Knocked Down One-Half at Valuation

SCOTTI FERNS: 8 inch pots, 36 inch across and about the same height; bigger than the biggest wash-tub, one hundred pounds and upwards \$2.00; 7 inch \$1.25; 6 inch 75c. to \$1.00; 5 inch 30c.; 4 inch 20c. to 25c.

BOSTON FERNS.

Large, special size...	7 in.	\$1.00 to 1.25
Regular size.....	6 in.	.40 to .50
Regular size.....	5 1/2 in.	.35 to .40
Regular size.....	5 in.	.30
Regular size.....	4 in.	.20

PIERSON FERNS: 7 inch \$1.00; 6 inch 50c.; 5 1/2 inch 35c. to 40c.; 4 inch 20c. **ELEGANTISSIMA:** 5 inch 40c.; 4 inch 30c.

FERNS FOR DISHS: All varieties, \$5.00 per 100.

Godfrey Aschmann's greenhouses are now **slaughter houses!** Can't be helped! Down go the prices! Houses must be empty by **Christmas** to make room for an extensive **Easter stock.**

AURACARIA ROBUSTA COMPACTA: (same as before).

KENTIA FORSTERIANA: (made up plants, 7 in. pots, center about 50 to 52 inches high, with 3 smaller around; usual price \$4.00, now \$2.00 and \$2.25. **KENTIA FORSTERIANA:** (single plants).

Pots.	Height	Age	Were	Now
6 in.	50 to 56 in.	4 yrs.	\$3.50	\$1.75
6 in.	45 to 50 in.	4 yrs.	3.00	1.50
6 in.	40 to 45 in.	4 yrs.	2.50	1.25
6 in.	35 to 40 in.	4 yrs.	2.00	1.00
6 in.	28 to 30 in.	3 yrs.	1.50	1.25

KENTIA BELMOREANA: made up plants, 7 inch pots, 35 to 40 in. high, 3 small around, knocked down from \$4.00 to \$1.75. 6 inch pots 25 to 30 inches high 50c. and 60c. (worth \$1.00 and \$2.00).

TICUS ELASTICA: 6 inch pots very large 50c.; second size, 6 inch pots 40c.; third size, 6 inch pots 20 to 25 inches high 30c. to 35c.; specimens, very heavy 30 to 35 inches high 75 cents.

AZALEAS FOR CHRISTMAS: in bloom and bud; have only fine plants; Deutsche Perle, white, Simon Mardner, pink and Vertueviana, dark red and variegated, \$1.00, \$1.25, \$1.50 and \$1.75. (A few, mostly white, at 75c.)

ASPARAGUS PLUMOSUS: 4 inch 60c. **ARCA LUTESCUS:** 20 inches high, made up, 35c.; **LATENTIA BORBONICA:** 5 inch 30c.; **PRIMULA CHINENSIS** and **OBONICA:** 4 inch, \$2.00 per dozen; **DRACENA BRUANTII:** very attractive, Belgium gown, good for decorations or the house, stands dust and dirt, 50c.; **JERUSALEM CHERRIES:** 20 inches high, well-furnished, 7 inch pots 50 to 75 cents.



Ha! Ha! said Brer Rabbit
Just think of it **HARDY LOW**
BUDDEN DUTCH ROSES at such figures

70^{c.} Bundle of 10

These roses are tied up ten of one variety roots nicely mossed. Do not break bundles.

Captain Christy, delicate flesh, rosy center
Prince Camille de Rohan, deep velvety crimson
Alfred Colomb, carmine crimson
Mme. Charles Wood, reddish crimson, very free
Perle des Blancs, pure white
Madame Isaac Perriere, bright cerise
Louis Odier, dark red
Crimson Rambler
Amalia, velvety red
Monsieur Boncenne, crimson
Jules Margottin, glossy pink
Plus IX, pink
Madame Gabriel Luizet, satiny rose
Belle Siebrecht, creamy white
Duchess of Edinburgh, bright crimson
Fisher Holmes, brilliant crimson
Frau Karl Druschki, pure white, waxy foliage
General Jacqueminot, brilliant crimson
La France, silvery rose
Mme. Plantier, pure white
Magna Charta, pink, suffused carmine
Reine Olga de Wurtemberg, lilac
Pæonia, large rose red
Mrs. John Laing, soft pink, extra
Countess Jules de Schulenburg, dark crimson red
Ulrich Brunner, cherry red
Marie Bauman, carmine
Mme. Joseph Combet, soft pink
Thalia, white rambler
Euphrosine, pink
Aglaia, yellow
Gardenia Florida, white
Carmine Pillar
Captain Hayward, cherry red

STANDARD or TREE \$18 00 per 100

Same varieties as above, in lots of 10 and up

Wm. Elliott & Sons

AUCTIONEERS

201 FULTON STREET, NEW YORK

Godfrey Aschmann
1012 Ontario Street

**IMPORTER and WHOLESALE
GROWER OF POT PLANTS**

- PHILADELPHIA

These are all cut prices; one half the usual rates and must be paid cash with the order.

All goods must travel at the risk and expense of the purchaser. Mention **HORTICULTURE** when ordering to ensure prompt and careful attention.

VICTORY

THE BEST SCARLET CARNATION—Requires only ordinary culture

TWO TRUMPS

PINK PATTEN THE MIKADO

Brighter than Lawson

Strictly Fancy

First Class Certificate at Boston and Tarrytown First Class Certificate American Carnation Society at Chicago

PRICES

Per 100, \$10.00; per 1000, \$80.00; 250 at 1000 rate.

Send for Descriptive Circular

Patten & Co., Tewksbury, Mass.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers whole-sale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and filled in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street

SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

CARNATIONS

(Rooted Cuttings and Pot Plants.)

Lawson, Enchantress, Lady Bountiful, White Lawson, Fred Burki, Cardinal, Fiancee, and other standard varieties. Also the new scarlet JOHN E. HAINES and the new white MY MARYLAND. Send for price list.

CHRYSANTHEMUMS

(Rooted Cuttings)

Alice Byron, Mrs. McArthur, Lady Harriett, Mand Penn, Marie Liger, Lavender Queen, Robt. Halliday, Col. Appleton, J. C. Salter, \$2.00 per 100; \$15.00 per 1000. White Eaton, Chadwick, Convention Hall, yellow Chadwick, \$2.50 per 100; \$20.00 per 1000. Also a number of other standard varieties. Send for list.

SAMUEL S. PENNOCK,

The Wholesale Florist of PHILADELPHIA
1612-1618 Ludlow St.

If you offer the right goods in the right way in these columns, you will not lack for customers.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.
Joliet, Ill.

ROBT. C. PYE

Carnation Grower

NYACK, N. Y.



THE MODEL EXTENSION CARNATION SUPPORT

Endorsed by all the leading carnation growers as the best support on the market. Made with 2 or 3 crooks. Write for prices and circulars.

We have special low prices to offer and can save you money on

Calvanized Wire ROSE STAKES

Write us for price before ordering elsewhere here. Prompt shipment guaranteed.

IGOE BROS.

226 North 9th Street,
BROOKLYN, N. Y.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

PAEONIES

FESTIVA MAXIMA, largest and best of all

paenies, white,
3-5 eyes \$5.00 per doz. \$35.00 per 100
7-10 " 7.00 " 50.00 "

RICHARDSON'S RUBRA SUPERBA, bright-
est red, best keeper, producer and pro-
lific.

3-5 eyes \$3.00 per doz. \$20.00 per 100
7-10 " 4.00 " 30.00 "

FRANCES ORTEGAL, very deep rich crim-
son. Large and extremely prolific.
3-5 eyes \$2.00 per doz. \$12.00 per 100
7-10 " 3.00 " 20.00 "

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We must have room. Note our prices. Large, strong roots. 75c. per doz. \$4.00
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By Arthur Herrington

The most complete and comprehensive work on the cultivation of the chrysanthemum that has yet been published in America. Its scope and character may be gleaned from the list of contents, which comprises: chapters on culture for exhibition; composts; planting; benches, boxes or pots; general culture; details: crown and terminal buds; feeding; its object and application; care of the buds; exhibition and judging; specimen plants, chrysanthemum, raising from seed and hybridizing; sports, hardy chrysanthemums; chrysanthemums for south and west; chrysanthemums in Australia; insect pests and diseases; classification and selection of varieties for special purposes; and history of the chrysanthemum. The book will be welcomed both by the professional and amateur growers of chrysanthemums for the lucid, comprehensive as well as the practical character of its contents, which, if strictly followed, cannot fail to bring about the desired results, namely, the obtaining of large chrysanthemum flowers in the greenhouse and a profusion of bloom in the garden. Handsomely illustrated. 198 pages. 5x7 inches. Price, 50c.

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Offers for the entire stock will be received. Failing to obtain an acceptable offer, will be sold at Public Sale, December 18, at 11.30 A. M.

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3 in. pots, 3 plants in pot \$3.00 per 100

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List Ready About December 1.
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**Lorraines, Cyclamens,
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terminalis, Ardesias,
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just right for Christmas**

Send for Holiday Price List.

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We also offer fine plants in bloom, ALL BEST CHRISTMAS VARIETIES, followed by later blooming sorts up till Easter.

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**In fine condition.
Importations of**

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NEPHROLEPIS ELEGANTISSIMA

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ALL THE BON TON FLORISTS are handling it and acknowledge that it is the most elegant and beautiful plant they have ever offered for a house decoration. Has all the elegance of the rarest exotic and the hardiness of the Boston Fern.

Its Value

is emphasized by the fact that it still commands the same prices at which it was originally placed upon the market.



Order Early

Because although we have a large stock at present, the demand is likely to exceed it. The best selling sizes for retail are the 6 and 8-in. pans.

SPECIAL!—We offer a sample box of 6 of these sizes, 12 plants in all, value \$27.00, for **\$24.00 net.** Packed carefully and selected, and safe arrival guaranteed.

PRICES: Strong plants for immediate sale, 6-in. pans, \$1.50 each; 8-inch, \$3.00 each; extra strong plants, 3 1/4-inch, very fine, \$50.00 per 100; strong established stock in 2 1/4-inch pots for growing on, \$25.00 per 100.

You know all about the gold and silver medals and certificates and highest honors this Fern has won wherever exhibited.

In ordering please state whether to ship in pots or not and DON'T put off ordering until winter weather makes shipping risky. ❄️ ❄️

F. R. PIERSON CO., Tarrytown-on-Hudson, N.Y.

PHILADELPHIA NOTES.

Lawrence Cotter has been sending in some very fine Wellesley roses to this market lately, and these have found a ready market. S. S. Pennock is the able medium.

Edward Reid's well-equipped system of cooling rooms with plenty of air and free circulation seems to be an ideal proposition for cut flowers. Carnations keep particularly well under this method, because there is no reaction.

At the Godfrey Aschmann establishment, the Christmas plant trade is now in full swing. House after house of well-finished azaleas are all ready for shipment. Deutsche Perle, Simon Mardner and Vervaneana are the three best Christmas bloomers. Palms, ferns, Lorraine and Erford begonias, primulas, dracaenas and solanums are all in the preferred class also. Mr. Aschmann's prescription for success is liberal advertising and always doing a little better for the customers than one promises. If a customer ordered but once after an introduction had been secured by the advertising medium, it would spell ruin to the advertiser. It is the repeat orders and the building up of the business that warrant liberal expenditures in getting new business. Often one new customer will compensate for all the advertising for a year.

S. S. Pennock has built up an important market for Christmas plants, handling the product of several large growers. Shipping facilities are unexcelled, and the advantage of a central distributing depot for plants at this busy season is appreciated by buyers, who have no time to give to running around among greenhouses. The cut flower business has long enjoyed this facility, and now that it has been inaugurated for the plant trade, it has come to stay.

A GOOD HOSE.

The question of obtaining a satisfactory hose has long been prominent with greenhouse owners. The severe strain of constant dragging over the rough walks and around short, sharp turns soon renders the hose liable to kink, and users in general conclude that a hose that lasts six months is doing fairly well. A hose is now on the market which its makers, the Mineralized Rubber Co. of New York, claim comes nearer to perfection for greenhouse work than any offered heretofore, their aim being strength, lightness in weight, and durability. The first qualification was met by constructing a hose that would stand any hydrant pressure, and the last by a peculiar method of manufacture. It is well known that the flow of water in a tube is governed by the interior diameter of the smallest part of that tube. As the couplings of 3-4 inch hose are only 1-2 inch in the interior the hose practically conveys the same amount of water as a 1-2 inch hose. Keeping this point in view the manufacturers constructed a 1-2 inch hose with ends enlarged to admit a 3-4 inch coupling, thus delivering as much water as a 3-4 inch hose and with no back pressure. The Anchor Greenhouse Hose is guaranteed to stand any regular hydrant pressure, and not to kink, and testimonials from users show that it has given two years constant service in greenhouse work.

A HAPPY CONGRATULATION.

The promoters of the flower show which has just closed are to be congratulated upon its success, and, by the same token, so is the city. In these modern times to maintain the reputation of a city means the successful carrying through of various undertakings to attract and interest people. No city can live and maintain its reputation by simply providing for the physical necessities of people and giving them their money's worth in pork and beans, in boots and shoes, in dry goods and hardware. These are important, but they are not the whole thing. Man does not live by bread alone, nor cities simply by selling the necessities of life at a profit. The spiritual and aesthetic side of life is fully as important, and a city that would maintain the reputation of "no mean city" must think of this side of life as well as of the other.

Music festivals, art exhibitions, fine concerts, intellectual entertainments, horse shows, bench shows, flower shows—these and other things that appeal to the varied tastes of different people, and especially to their aesthetic nature, are quite as important as sausage factories and pure food shows. Flower shows are educational. Such an exhibit as that which has just been held in this city appeals to the higher sensibilities of cultured people, and attracts thousands of people from outside of the city, who go away impressed by the attractions of Indianapolis. It makes them proud of their State capital. Such a show is worth encouraging, even from a commercial point of view on account of the trade it draws, but much more from an aesthetic point of view in the sensations it stirs and the memories it leaves. The florists of the city and the State deserve congratulation on their enthusiasm and success. May increasing prosperity be theirs.—Indianapolis News.

GREENHOUSES BUILDING AND PROJECTED.

Orange, N. J. F. C. Read, one house. Portsmouth, N. H.—John Grant, one house.

Bellows Falls, Vt.—F. A. Halliday, one house, 20 x 50.

The new greenhouse of George D. Cook, at Farmington, Me., is completed and well stocked with carnations.

BUSINESS CHANGES.

H. E. Wilson of Rochester, N. Y., has opened a branch store at 379 Main street, East.

Joseph A. Manda succeeds the Llewellyn Japanese Nursery Co., West Orange, N. J., and will take possession of the premises after Easter.

Addicted to chewing—the gypsy moth.

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VICTORY

THE BEST SCARLET CARNATION—Is a Fancy in the fullest sense of the word

Flower Market Reports.

BOSTON

Conditions have simmered down since the Thanksgiving rush and demand and supply are more nearly balanced in most lines. American Beauties are smaller as a rule, the inferior grades predominating. Of the other market roses there is a lighter supply but the grade has improved materially. A fair demand exists for all roses. Carnations have taken on a better pace, due in part probably to the elimination of the chrysanthemum from the situation. Violets hold their own for this time of the year.

BUFFALO

A good business was done during the past week and a fairly good clean-up was had on all stock. A good supply of chrysanthemums of medium quality was snapped up quick. Carnation being in good demand prices raised somewhat and fancy grades reached \$4 to \$5 per hundred, the best demand being for colored. Flamingo brought good figures but not enough could be obtained. Roses were of fine quality especially Liberty, Bridesmaid, and Bride. Beauties were as good but the demand was not so great. Of violets, lily of the valley and other flowers there were enough to go around. Green goods sold well.

CHICAGO

Thanksgiving is over and according to all indications the season was a successful one as far as business is concerned. The trade was fair, an especially good record being made in regard to shipments. The quality of the goods was excellent excepting some few carnations which were slightly underdone, with the result that after the great feast day the carnation is fairly scarce as the growers cut everything in sight, under the incentive of high Thanksgiving Day prices, and the weather being somewhat murky and cold, very little stock of this favorite is coming in. Roses are holding their own. The supply of Bridesmaids and Brides is on the decrease, with a good demand. Beauties are coming on in fairly good style, the fancy type predominating, short stock (known as ordinary) being fairly scarce. Chrysanthemums are about at the half-way line between the early and late varieties. Violets are coming in a little firmer and good flowers may be had at reasonable figures. Lily of the valley demands fair prices, with a good market. Gradually, Roman hyacinths and Paper White narcissi are showing up, the crop promising to be good. Romans are taken with good celerity at reasonable prices. Altogether the general conditions are indicative of an improvement all along the line, the cold dark weather having the effect

of cutting down the supply generally and making the stock of better quality, as the warm weather had a tendency to produce soft grown. All told it is agreed that the Thanksgiving season was a success. A fairly good supply of holly and other greens indicates the near approach of the Christmas season.

Business conditions the past week were very encouraging.

Thanksgiving business was up to expectations, the only thing running short being large chrysanthemums. There has been an unusual amount of funeral work. Carnations are in good demand, but the supply is light. The demand for roses is good with the supply and quality up to expectations. Violets and other novelties move nicely.

Newport florists expected that business would be a little better this

Thanksgiving than it was last year, and they were disappointed, not in the amount of business, but because they were not prepared to meet it. There was more call for flowers, small ferns and foliage plants than ever before on Thanksgiving Day. All the roses in stock were sold early in the day, and it was hard work to get more. Newport is not like Boston or New York, where at all times there is always an inexhaustible supply. Newport has but few rose growers, and these few shipped their last cut, and goodness knows how many other cuts, the night before, and then on Thanksgiving morning they had not many to give anyone. Prices went up, and the best part of it is, they have stayed up since. The market got such a cleaning out that the stock coming in and on sale is much improved. A few bunches of violets were seen just for an instant, and then they disappeared. Quite a number of plants changed hands, too, small ferns being favored.

There was little left in the hands of the

wholesale houses Saturday night last except violets, which hung fire. Roses and carnations were in good demand and good prices for good stock prevailed. Beauties especially were most called for and the best prices of the season were realized on that day. Liberty is scarce and sells well. The week opened up with a good supply of most everything and good prices were asked and obtained for some stock but the market did not hold out and it now appears that Beauties and carnations must suffer in value if clearances are to be effected. There is a lull in business, which usually follows a holiday. The crop of Bridesmaids is running off and it is probable the price of that rose

ought to remain steady. There are still a number of the late varieties in evidence but not enough to materially affect the sale of other stock. A considerable number of lilies are to be seen in wholesale places and are held at steady prices. Orchids are not plentiful. Paper white narcissi and Roman hyacinths, stevia, etc., are coming on. Adiantum is a little shy at present but the void is filled with plenty of asparagus and smilax, both of which are plentiful. Liberty roses are not near so plentiful of late and sell well.

PHILADELPHIA

Thanksgiving week, while in the main satisfactory as to volume of business was marred by stormy weather on the day previous. Nevertheless, the general results were better than might have been expected, and most of the wholesalers report a larger trade than last year. Red was the favorite color, Liberty leading in roses, followed by Beauty and red carnations. Violets were plentiful, but the demand was not particularly brisk. Chrysanthemums moved well, considering that they are nearing the end. Gardenias were scarce and in brisk demand. Sweet peas and mignonne are now fine and cut considerable figure in the market. Prospects for Christmas trade seem excellent. Many good orders both for pot plants and cut flowers have already been placed.

SAN FRANCISCO was an extra busy time with plant and cut flower dealers. Extra forces had been at work all forenoon and most of the previous night, and each proprietor asserted that this Thanksgiving Day business had been far and away ahead of the best heretofore.

Business for Thanksgiving was the same as usual, nothing startling. Enough stock to go around. The first cold wave of the season arrived Wednesday morning.

Smilax Strings In Quantity

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Wholesale Florist
1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1236 Ransford Street, PHILADELPHIA
Store Closes 8 P. M.

Maid, Brides, Beauties

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Store Open 7 A. M. to 8 P. M.

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WHOLESALE and COMMISSION FLORIST

115 W. 30th St., New York

Tel. No. 956 Madison Square

Wanted - A few more reliable growers of Carnations and Violets. Quick returns and lowest prices.

Established 1901 BUY FROM SHIP TO TRY

All Choice Cut Flowers in Season

ALFRED H. LANGJAHR

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Telephone 3324 Madison Square.

Write or Telegraph your

RETAIL ORDERS

For Chicago and vicinity to

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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Dec. 6	ST. LOUIS Dec. 4	PHILA. Dec. 6	BOSTON Dec. 6
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Am. Beauty and Edgely Fan, & Sp.	40.00	40.00	20.00	20.00
Extra.....	10.00	10.00	10.00	10.00
No. 1.....	20.00	20.00	10.00	10.00
Lower grades.....	10.00	10.00	10.00	10.00
Bride & 'Maid—Fan, & Sp.....	8.00	10.00	5.00	5.00
Extra.....	1.00	1.00	1.00	1.00
No. 1 and Lower grades.....	3.00	1.00	2.00	1.00
Liberty, Richmond Fancy.....	8.00	1.00	8.00	10.00
Ordinary.....	8.00	1.00	2.00	10.00
Carnot and Kaiserin Fan.....	8.00	10.00	8.00	10.00
Ordinary.....	4.00	10.00	3.00	10.00
Golden Gate, Chienay, Fancy.....	8.00	10.00	8.00	10.00
Ordinary.....	4.00	10.00	3.00	10.00
CARNATIONS				
Fancy Class.....	4.00	4.00	5.00	4.00
General Class and Lower grades.....	2.00	4.00	3.00	3.00
MISCELLANEOUS				
Cattleyas.....	60.00	75.00	50.00	50.00
1 y of the Valley.....	1.00	4.00	1.00	1.00
Chrysanthemums.....	4.00	10.00	20.00	10.00
Violets.....	25.00	1.00	25.00	1.00
Adiantum Cuneatum.....	1.00	1.00	1.00	1.00
Crownam.....	1.00	1.00	1.00	1.00
Smilax.....	1.00	1.00	1.00	1.00
Asparagus Plumosus.....	1.00	1.00	1.00	1.00
" & Sprengen, bunches.....	20.00	3.00	20.00	3.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty.....

WHOLESALE

GROWER OF

CUT FLOWERS

MUMS, BEAUTIES, VALLEY

Wholesale Florists

PHILA. CUT FLOWER CO. 1516-1518 SANSON ST. PHILA.

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Patronize our Advertisers, they will treat you right

We are receiving
and can furnish
in any quantity

THE BEST

Lilies and
Violets

handled in
New York
this season

A full supply
of all

Cut Flowers

**FORD
BROS.**

48 W. 28TH STREET, NEW YORK

TELEPHONE: 3870 OR 3871 MADISON SQUARE

We offer for

CHRISTMAS

a superb stock of
the finest

Carnations

Roses and

Poinsettias

Violets, Lilies

Asparagus

Lily of the Valley

PRICES READY

OK'd By the Trade!

MILLANG'S WAY

Economy in handling and selling consigned goods;
everything sold.

Convenience for those who wish to purchase plants. No long trips to
greenhouses. Call and select the stock or order by sample.

We don't need to prove it. They all admit it.

A Full Line of Holiday Plants and Cut Flowers.

CHARLES MILLANG

50 West 29th Street - - - NEW YORK

Tel. 3860-3871 Madison Square

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Wholesale Commission Florist

COOGAN BUILDING

55-57 W. 26th Street, NEW YORK

Tel. 299 Madison Sq. Open 6 A. M. to 3 P. M.

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FINE ROSES FANCY CARNATIONS

A Full Line of All CUT FLOWERS

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THE WHOLESALE

FLORIST

OF NEW YORK

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JOHN I. RAYNOR

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	Last Half of Week ending Dec. 2 1905		First Half of Week beginning Dec. 4 1905			Last Half of Week ending Dec. 2 1905		First Half of Week beginning Dec. 4 1905	
Roses					Carnations				
Am. Beauty, fan and sp.....	10.00	10 50.00	10.00	10 50.00	Fancy Class.....	3.00	10 0.00	3.00	10 0.00
" extra.....	20.00	10 25.00	20.00	10 25.00	General Class and Lower grades.....	1.50	10 3.00	1.50	10 3.00
" No. 1.....	12.00	10 20.00	12.00	10 20.00	Cattleyas.....	50.00	10 75.00	50.00	10 75.00
" Lower grades.....	5.00	10 5.00	3.00	10 5.00	Lily of the Valley.....	2.00	10 3.00	2.50	10 3.00
Bride & 'Maid, fan and sp.....	10.00	10 15.00	8.00	10 10.00	Chrysanthemums.....	5.00	10 25.00	5.00	10 25.00
" extra.....	5.00	10 6.00	5.00	10 6.00	Oncidiums.....	3.00	10 3.00	2.00	10 3.00
" No. 1 and lower grades.....	2.00	10 4.00	2.00	10 4.00	Lilies.....	6.00	10 8.00	6.00	10 8.00
Liberty, Richmond fan, and sp.....	10.00	10 15.00	10.00	10 15.00	Violets.....	75	10 4.25	50	10 1.00
" Ordinary.....	3.00	10 6.00	2.00	10 5.00	Adiantum Cuneatum.....	75	10 1.00	75	10 1.00
Carnot and Kaiserin, fancy.....	7.00	10 11.00	6.00	10 10.00	" Croweatum.....	1.50	10 1.00	1.50	10 1.00
" Ordinary.....	2.00	10 4.00	2.00	10 4.00	Smilax.....	3.00	10 10.00	8.00	10 10.00
Golden Gate, Chatsenay, fancy.....	6.00	10 10.00	6.00	10 10.00	Asparagus Plumosus, string.....	25.00	10 35.00	20.00	10 35.00
" Ordinary.....	2.00	10 4.00	2.00	10 4.00	" & Sprenger, bunches.....	10.00	10 20.00	12.00	10 20.00

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ROSES				
Am. Beauty, fan, and sp.	20.00	to 25.00 to 40.00	30.00 to 35.00
" extra.....	12.50	to 15.00 to 20.00	20.00 to 25.00
" No. 1.....	8.00	to 10.00	..... to 15.00	10.00 to 15.00
" Lower grades.....	.....	to 5.00	8.00 to 10.00	3.00 to 5.00
Bride and Maid, fan, and sp.	5.00	to 6.00	..... to 18.00	8.00 to 10.00
" extra.....	.....	to 4.00	..... to 10.00	5.00 to 6.00
" No. 1 and Lower gr	2.00	to 3.50	4.00 to 10.00	3.00 to 6.00
Liberty, fan, and sp.	.....	to 4.00	..... to 8.00	5.00 to 10.00
" Ordinary.....	.....	to 4.00	..... to 7.00	4.00 to 4.00
Carnot and Kaiser, Fancy.....	5.00	to 6.00	..... to 18.00	8.00 to 10.00
" Ordinary.....	3.00	to 4.00	4.00 to 10.00	3.00 to 4.00
Golden Gate, Chateaux, Fancy.....	2.00	to 5.00	..... to 8.00	5.00 to 6.00
" Ordinary.....	.....	to 4.00	..... to 6.00	..... to 4.00
CARNATIONS				
Fancy Class.....	3.00	to 4.00	..... to 4.00	3.00 to 3.00
General Class.....	1.50	to 2.00	2.00 to 4.00	2.00 to 3.00
MISCELLANEOUS				
Cattleyas.....	.....	to 50.00	40.00 to 60.00	..... to 4.00
Lily of the Valley.....	.....	to 4.00	3.00 to 4.00	3.00 to 4.00
Violets.....	2.00	to 7.50	to 1.00	1.00 to 2.00
Lilies.....	12.00	to 15.00	..... to 15.00	..... to 15.00
Chrys-anthemums.....	4.00	to 20.00	5.00 to 15.00	5.00 to 25.00
Adiantum Cuneatum.....	.....	to 1.00	1.00 to 2.00	1.00 to 2.00
" Crowneum.....	.....	to 1.00	1.00 to 1.25	1.00 to 1.25
Smilax.....	12.00	to 15.00	..... to 15.00	12.00 to 15.00
Asparagus Plumosus, strings.....	25.00	to 35.00 to 40.00	30.00 to 50.00
" & Sprenger, bunches.....	to 35.00 to 35.00 to 35.00

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ACCOUNTANT.

Robert J. Dysart, 28 State St., Boston.

For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.

For page see List of Advertisers.

Joseph Breck & Sons,

51 and 52 N. Market St., Boston.

For page see List of Advertisers.

ASPARAGUS PLUMOSUS.

E. G. Plumer, Swampscott, Mass.

For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.

Bermuda Harrisil Bulbs.

For page see List of Advertisers.

Joseph Breck & Sons, 47-54 N. Market St., Boston.

For page see List of Advertisers.

French and Dutch Bulbs.

For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.

Arlington Tested Seeds for Florists.

R. & J. Farquhar & Co., Boston.

Catalogs of Holland Bulbs and Tubers.

For page see List of Advertisers.

J. M. Thorburn & Co.,

36 Cortlandt St., New York.

For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.

For page see List of Advertisers.

H. F. Mitchell & Co.,

Philadelphia, Pa.

For page see List of Advertisers.

Stump & Walter Co., 50 Barclay St., New York.

Russian Lily of the Valley.

For page see List of Advertisers.

Ramona Nurseries, Shorb, Calif.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.

For page see List of Advertisers.

CALLAS.

H. F. Mitchell & Co.,

Philadelphia, Pa.

For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1251 Chestnut St., San Francisco, Cal.

Hannah Hobart.

For page see List of Advertisers.

Robert C. Fry, Nyack, N. Y.

For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.

For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass.

Rooted Cuttings Variegated Lawson.

For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y.

Carnation Victory.

For page see List of Advertisers.

Patton & Co., Tewksbury, Mass.

Pink Patton and Albino Carnations.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.

John E. Halm, My Maryland.

For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 225 N. 9th St., Brooklyn, N. Y.

For page see List of Advertisers.

CHRYSANTHEMUM STOCK

PLANTS.

Dolly Rose, Wannamaker, Ivory, White Bonnafon, Perrin, Pacific, Enguehard, Balfour, Coomes, Hailday, Yellow Bonnafon, Chestnut Hill, Golden Chadwick, Riemann, \$1.00 per doz., \$5.00 per 100. Peirce Bros., Waltham, Mass.

The H. Weber & Sons Co., Oakland, Md.

For page see List of Advertisers.

CHRISTMAS PLANTS.

W. S. Herzog, Morris Plains, N. J.

For page see List of Advertisers.

R. T. McGorum, Natick, Mass.

For page see List of Advertisers.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.

For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.

For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Dedham, Mass.

For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Aburndale, Mass.

For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.

For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.

For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.

Nephrolepis Barrowsii.

For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.

For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.

Nephrolepis Picta, Elegantiissima.

For page see List of Advertisers.

John Scott, Kemp St., Brooklyn, N. Y.

Scott Fern.

For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.

For page see List of Advertisers.

H. Bayeredorf & Co., Philadelphia, Pa.

For page see List of Advertisers.

The Kervan Co., 29 W. 27th St., N. Y.

Decorative Evergreens.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.

For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburgh, Pa.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.

For page see List of Advertisers.

J. Stern & Co., 1925 Germantown Ave., Philadelphia.

For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.

For page see List of Advertisers.

Koral Mfg. Co., 28 Hawley St., Boston.

For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.

For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.

For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.

For page see List of Advertisers.

Young & Nugent, New York.

For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Adela.

For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.

For page see List of Advertisers.

Page

Allen Wm. Stuart Co. 639

Aschmann Godfrey. 610

Baker Wm. J. 626

Bambrick, Thos. H. 632

Barrows H. H. & Son. 632

Bayeredorf H. & Co. 634

Beaven, E. A. 636

Black, Chas. 616

Blackstone, J. D. 624

Blaney E. J. 632

Boas W. G. & Co. 616

Boudinot A. T. 594-602

Bonnet Bros. 630

Boston Florist Letter

Co. 636

Breck Joseph & Sons 632

Breitmeier's J. Sons

597-604

Budling J. A. 620

Burnett Bros. 616

Burnham Hitchings

Pierson Co. 640

Burpee W. A. & Co. 602

California Rose Co. 617

Central Floral Co. 626

Chicago House Wreck-

ing Co. 638

Chicago Carnation

Co. 630

Cochran Mushroom

& Spaw Co. 626

Cooke G. H. 624

Cottage Gardens 613-621

Crowl F. W. Co. 636

Dilger Wm. 620

Dimmock A. 622

Dreer H. J. 638

Dyars J. R. 632

Edger W. W. 628

Elliott Wm. & Son 616-621

Euler J. G. 638

Ernest W. H. 638

Farquhar R. & J.

630

Fletcher F. H. 622

Foley Mfg. Co. 630

Forsyth Bros. 627-628

Forest Nursery &

Seed Co. 617

Franklin Davis Nur-

series Co. 616

Froment H. F. 626-628

Fromow W. & Sons. 617

Grey T. J. & Co. 602

Gude A. & Bro. 624

Gorney Heater Mfg.

Co. 638

Guttman Alex. J.

613-617 626-628 634

Hail Asso. 618

Hammond Paint &

Slug Shot Works. 602

Heller & Co. 617

Herzog W. 616

Hewes A. H. & Co. 638

Hinde Florist Co. 594

Holly Castle Co. 619

Horan E. C. 627-628

Horticulture Pub. Co.

621

Hunt E. H. 18-626

Igoe Bros. 225 N. 9th St., Brooklyn, N. Y.

For page see List of Advertisers.

James, McJuffee &

Stratton Co. 637

Joynt John 617

Kastner W. F. 620

Kervan Co., 28 Hawley St., Boston.

For page see List of Advertisers.

Kessler, P. F. 624

King Com. Co. H. 631

Kloker A. 638

Koral Mfg. Co. 611

Lager & Hurrell. 622

Lang Julius 622

Langstaff, Alfred H. 622

Leuthy A. & Co. 622

McCarthy N. F. &

Leuthy A. & Co. 622

McConnell Alex. 621

Page

McGorum R. T. 621

McKellar Charles W. 626

McKisick, W. E. 625

McManus Jas. 628

Meehan Thos. & Son 617

Metropolitan Material

Co. 628

Michell H. F. 602

Michigan Cut Flower

Exchange 629

Milling Charles 629-630

Mislang Frank 623

Mineralized Rubber

Co. 617

Muninger J. C. 638

Mt. Hissarick Nurser-

ies 617

Murdoch J. B. 629

Murray Samuel 624

Nelson, W. K. 617

Niessen Leo. Co. 616

FLOWERS BY TELEGRAPH.

(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

FREESIAS.

H. F. Michell & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLADIOLUS.

Rowehl & Grauz, Hicksville, L. I., N. Y.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.John C. Moninger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.The Kervan Co.,
20 W. 27th St., New York.

For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.
Fancy Ferns.
For page see List of Advertisers.Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Holker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.
For page see List of Advertisers.R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICOTIANA SANDERAE.

Sander & Sons, St. Albans, Eng.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.

PAEONIES.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PALMS.

Romona Nurseries, Shorb, Cal.

PATENTS.

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not's, Geraniums.
For page see List of Advertisers.H. M. Totman, Randolph, Vt.
Snap Dragon, Sweet Peas, Geraniums.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.S. S. Pennock, Philadelphia, Pa.
Boxwood Sprays, Dwarf Evergreens, Cedar
Bark.

PLANTS, HARDY.

H. A. Stevens Co., Dedham, Mass.
Peonies and Pinks.
For page see List of Advertisers.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publishing Co., Boston.
For page see List of Advertisers.The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.Alex. McConnell, New York.
For page see List of Advertisers.Thomas Young, Jr., New York.
For page see List of Advertisers.Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.Young & Nugent, New York.
For page see List of Advertisers.
Z. D. Blackstone, 14 & H Sts., Washing-
ton, D. C.
For page see List of Advertisers.

RETAIL FLORISTS.

(Continued.)

George H. Cooke, Washington, D. C.
For page see List of Advertisers.A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Ramblers.August Rolker & Sons, 31 Barclay St.,
New York.
English-Grown Roses.
For page see List of Advertisers.Thos. Meehan & Sons, Dreshertown, Pa.,
Box C.
Manetti Rose Stock.
For page see List of Advertisers.Benj. Dorrance, Dorranceton, Pa.
Killarney and Richmond.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.
Cyclamen Seeds.
For page see List of Advertisers.Thos. J. Grey & Co., 32 S. Market St.,
Boston.
For page see List of Advertisers.Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.Forest Nursery & Seed Co., McMinville,
Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.Conrad Appel, Darmstadt, Germany, Es-
tab. 1789, High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.
For page see List of Advertisers.E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

The Chicago Lifter.

J. C. Moninger Co., 421 Hawthorne Ave.,
Chicago.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.George A. Sutherland Co., 34 Hawley St.,
Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 383-87 Ellicott St., Buf-
falo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Endling, 37 Randolph St., Chicago.
E. H. Hunt, 70-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Heinberg, 61 Wabash Ave., Chicago.
A. L. Randall, Co., 21 Randolph St., Chicago.
Wolland & Risch, 59 Wabash Ave., Chicago.
Wietor Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 69 Wabash Ave., Chicago.
E. F. Winteron Co., 45, 47, 49 Wabash
Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

WHOLESALE FLORISTS. (Continued.)

Detroit.

For page see List of Advertisers.
McLean Cut Flower Exchange, 38 & 40
Miami Ave. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Bonnet Bros., 55-57 West 29th St., New
York.
Ford Bros., 48 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 28th St., New
York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Millang, 50 West 28th St., New York.
Frank Millang, 55-57 W. 28th St., New
York.
John J. Perkins, 115 W. 30th St., New York.
John L. Raynor, 49 W. 28th St., New York.
George Salford, 46 W. 29th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Trenndy & Schenck, 44 W. 28th St., New
York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.
W. E. McKisick, 1221 Filbert St., Phila-
delphia, Pa.
Leo Nielsen Co., 1217 Arch St., Phila-
delphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 545 Liberty St., Pitts-
burg.

New Offers in This Issue.

CANADA HARDWOOD ASHES.

John Joynt, Lucknow, Ont., Can.
For page see List of Advertisers.

CARNATION ROBERT CRAIG.

Cottage Gardens Co., Queens, L. I., N. Y.
For page see List of Advertisers.

CARNATION VICTORY.

Guttman & Weber, 43 W. 28th St.,
New York.
For page see List of Advertisers.

CHRISTMAS AZALEAS, WIS- TERIAS, ETC.

Hinode Florist Co., Whitestone, N. Y.
For page see List of Advertisers.

CHRISTMAS BELLS, GRASS-GROW- ING HEADS, ETC.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

CHRISTMAS NOVELTIES, BELLS, HOLLY AND SUPPLIES.

W. F. Kasing, Buffalo, N. Y.
For page see List of Advertisers.

CHRISTMAS PLANTS, HOLLY, GREENS.

Welds Bros., 15 Province St., Boston.
For page see List of Advertisers.

CHRISTMAS PLANTS.

A. Leuty & Co., Roslindale, Boston.
For page see List of Advertisers.

CHRISTMAS PLANTS.

Thomas Roland, Nahant, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.

W. W. Edgar, Waverly, Mass.
For page see List of Advertisers.

CHRISTMAS PLANTS.

Charles Millang, New York.
For page see List of Advertisers.

CHRISTMAS PLANTS, GREENS, RIBBONS AND SUPPLIES.

S. S. Pennock, Phila. Pa.
For page see List of Advertisers.

CHRYSAETHUM NOVELTIES, CARNATIONS, ROSES.

C. H. Totty, Madison, N. J.
For page see List of Advertisers.

EASTER AND WEDDING BELLS.

Koral Mfg. Co., Boston, Mass.
For page see List of Advertisers.

ELECTRIC CIRCULATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

FIELD GROWN ROSES.

W. K. Nelson, Augusta, Ga.
For page see List of Advertisers.

FIELD GROWN ROSES.

California Rose Co., Los Angeles, Calif.
For page see List of Advertisers.

GREENHOUSE BUILDING MA- TERIAL, VENTILATING AP- PARATUS, ETC.

Foley Mfg. Co., 471 W. 22d St., Chicago.
For page see List of Advertisers.

GREENHOUSE HOSE.

Mineralized Rubber Co., New York.
For page see List of Advertisers.

HARDY LOW BUDDED DUTCH ROSES.

Wm. Elliott & Sons, 201 Fulton St.,
New York.
For page see List of Advertisers.

HARDY ROSES FOR EASTER FORCING.

A. T. Boddington, New York.
For page see List of Advertisers.

HOLLY AND CHRISTMAS SUP- PLIES.

George A. Sutherland & Co., Boston.
For page see List of Advertisers.

HOLLY, BOXWOOD, ETC.

H. M. Robinson & Co., Boston, Mass.
For page see List of Advertisers.

NICOTIANA SANDERAE.

Sander & Son, St. Albans, England.
For page see List of Advertisers.

NURSERY STOCK.

Franklin Davis Nursery Co., Baltimore, Md.
For page see List of Advertisers.

ORCHID GROWERS AND IM- PORTERS.

Wheeler & Co., 1250 Beacon St.,
Waban, Mass.
For page see List of Advertisers.

PALMS, FERNS AND CHRISTMAS PLANTS.

Godfrey Aschmann, 1012 Ontario St., Phila.
For page see List of Advertisers.

PLANTS FOR FORCING, BABY RAMBLERS.

H. A. Dyer, Philadelphia.
For page see List of Advertisers.

PLANT POTS AND PEDESTALS.

Jones, McDuffee & Stratton Co., Boston.
For page see List of Advertisers.

RECEIVER'S SALE.

L. K. Penock, Inc., Atco, N. J.
For page see List of Advertisers.

RETAIL FLORISTS.

Central Floral Co., 105 Wabash Av.,
Chicago.
For page see List of Advertisers.

RETAIL FLORISTS.

Samuel Murray, 1017 Broadway,
Kansas City, Mo.

For page see List of Advertisers.

ROSE MISS KATE MOULTON.

E. H. Hunt, 56 Wabash Av., Chicago.
For page see List of Advertisers.

SEEDS, BULBS, FERTILIZERS.

Burnett Bros., 101 West St., New York.
For page see List of Advertisers.

VERBENAS, FORCING PLANTS, CHRISTMAS GREENS.

H. F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.

WELLESLEY ROSE.

Waban Rose Conservatory, Natick, Mass.
For page see List of Advertisers.

WHOLESALE FLORIST.

Thomas Young, 43 W. 28th St., New York.
For page see List of Advertisers.

CATALOGUES RECEIVED.

Henry Nungesser & Co., New York.
Wholesale price list of grass and clover
seeds.

Price list of field-grown roses from
W. K. Nelson, Georgia Nursery,
Augusta, Ga.

Beaven's Christmas Greens. An il-
lustrated list of southern specialties by
E. A. Beaven, Evergreen, Ala. Cover
is adorned with a spray of wild smilax
in colors.

Pittsburg Cut Flower Co. Ltd.
Florists' Supply Catalogue. A com-
pact and comprehensive list of indis-
pensable goods. "Neat but not gaudy"
and every florist should have a copy.

PUBLIC DOCUMENTS RECEIVED.

N. Y. Experiment Station, Geneva,
N. Y., Bulletin 268 on the inspection
of feeding stuffs.

WANTS.

GOOD MEN

When you need good men,
skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for
Florists, Nurserymen, Seedsmen and the
Horticultural trade generally.

GAMEKEEPER.

Wanting a position, thoroughly under-
stands rearing Fancy Pheasants of all
kinds, English, King Ducks, Partridge,
Quail, Wild Ducks, Peacocks, and taking
charge of estate. Address Care M., 152
East 78th St., New York.

WANTED—Salesman; bright, active man,
thoroughly competent, for ribbons, supplies
and cut flowers. Apply with full particu-
lars as to salary wanted, experience, refer-
ences, to S. S. Pennock, 1612-1618 Ludlow
Street, Philadelphia.

WANTED—Smart young man, 18 to 21,
for commercial rose growing; some experi-
ence preferred; wages to commence, \$9.
Address L. care HORTICULTURE, 11
Hamilton Place, Boston.

Book Your Orders Early

Farleyense

Both Cut Sprays and Plants

Poinsettias

Grown by the Thornhedge Greenhouses

\$12.50, \$25.00 and \$40.00
Per 100

Christmas Plants

Solanums, Azaleas, Crotons, Hollies,
Acubas, Skimmens, Lemons, Cyclamens
Ferns, Etc.

Begonias

Lorraine and Turnford Hall

Magnificent plants, well finished
In 6-inch and 8-inch pans,

\$1.00, \$1.50 and \$2.00 each
Immediate or future delivery.

Cattleyas

For Christmas and immediate delivery.

Gardenias

Book your order in good time for this
rather scarce item.

WHITE VIOLETS

Chatenay, Killarney and
Richmond ROSES

American Beauties

Long, Medium and Short Stems with
perfect foliage.

CHRISTMAS GREENS

Dwarf Evergreens

Winterberry

Boxwood Sprays

Holly

Laurel

Mistletoe

Leucothoe Sprays

Lycopodium

Galax (bronze and green)

RIBBONS

Satin Taffeta Lace

All styles, widths and colors. We carry a very large
and varied stock of Ribbons, and can meet any demand
on the shortest notice. Special Ribbon for Holly Wreaths.

Supply Department

ing boxes, 50c per bundle. Raffia, Cape Flowers, Florists' Cut
Wire, Wax Paper, Tooth Picks.

Wheat Sheaves, Silka=
line, Tin Foil, Letters,
all styles, Scollay Sprink=
lers, Cedar Bark for cover

Christmas Bells, Immortelle and Folding.

SAMUEL S. PENNOCK,
The Wholesale
...Florist of ...
Philadelphia

1614-1618 Ludlow Street

STORE CLOSSES AT
8 P. M.

Retailers—Notice—Wholesalers

Besides best quality Carnations, Roses, Valley, etc.
 I am receiver of more fine Violets
 than any other house in the U.S.
 and Certainly can deliver the goods
 from 500 to 50,000. It is up to you to
 send trial orders

Alexander J. Guttman
 43 West 28th St. The Wholesale Florist of New York
 Phone 1664-65 Madison Square

"WE MAKE GOOD"

On all orders for Holiday supplies. Don't wait until the last minute. Order now and have the goods by you in ample time.

Plant Baskets a splendid assortment for Christmas displays.

Immortelle Wreaths

Chip Hampers an up-to-date receptacle for long-stemmed flowers.

Uncle Theodore the new grass-growing heads. An attractive window novelty and a great seller. Creates an instant demand wherever shown.

Christmas Bells and **Red Crepe Folding Bells** The rage for these is stronger than ever this season. All sizes, 6 inches to 18 inches.

Waterproof Crepe Paper This is an indispensable covering for pot plants. We can supply same in all shades, also **Pleated Crepe** in all colors and

Fancy Waterproof Crepe Something entirely new and very attractive.

Moss Wreaths

Write us for prices on anything you want. Send for our descriptive Price List.

H. BAYERSDORFER & CO.,

56 North 4th St., Philadelphia

FINE SILVER CUPS and TROPHIES

For Exhibition Awards, Sporting
Events, etc.

FINEST ASSORTMENT IN THE COUNTRY
FROM THE BEST MANUFACTURERS AND
AT LOWEST PRICES.

THORNTON BROS.,
LAWRENCE, MASS.

HORTICULTURE

Reaches the Readers

Who Buy

Make Note of It.

Christmas Bells!

Christmas Folding Wreaths!!!

REED & KELLER

122 W. 25th St., N. Y.

Folding Bells, Imported

6 inch	-	40c. Dozen	12	"	=	\$1.95	"
9 "	-	80c. "	16	"	=	5.00	"
			21	"	=	9.00	"

Red Folding Wreaths. The latest novelty, rings included, resembling very closely the imported Immortelle Wreath

12 inch \$1.00

14 inch \$1.40

Grass Growing Pigs, Heads, etc.

Pigs, Small	\$1.80	Doz.	Heads, Small	\$3.50	Doz.
" Large	3.50	"	" Large	5.50	"
			" Extra	6.00	"

Rustic Ferneries, Tin Linings included

4 inch 30c. each
6 " 50c. "

7 inch 65c. each
8 " 75c. "

Imported Beech Sprays.

50 branches covering about the same space as a 50 lb. case of Smilax. Very effective for decorations. **\$12.00** per 100 branches.

CHRISTMAS HOLLY

Best Well-Berried, Dark Green Foliage, - \$5.00 per case

Laurel Festooning, good and full, 5c. and 6c. per yard. Laurel Wreaths, extra heavy, \$2.00 per doz. upwards. Special Southern Smilax, \$3.50 and \$7.00 per case. Pine Trimming, all round, 5c. per yard. Pine Wreaths, \$1.50 and \$2.00 per doz. Hardy Cut Dagger and Fancy Ferns, \$1.00 per 1000. New Crop Bronze and Green Galax, \$1.00 per 1000. Get Your Red Immortelles.

BOXWOOD SPRAYS, \$15.00 PER 100 LBS.

We are headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters, Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

HENRY M. ROBINSON & CO. 8 and 11 Province St. BOSTON, MASS.

L. D. Telephone 7618



BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1½ or 2 inch size per 100, \$2. Script Letters, ½. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

THE PRETTIEST CHRISTMAS BELL FOR LEAST MONEY

Do you want the greatest novelty in Christmas wreathing, Green Statice.

J. STERN & CO.

1928 GERMANTOWN AVENUE, PHILADELPHIA.

WILLIAM J. BOAS & CO.

MANUFACTURERS OF

Folding Flower Boxes

No. 1042 Ridge Avenue, Philadelphia

Write for Price List and Samples
In writing advertisers, mention Horticulture

E. A. BEAVEN

Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.

THE KERVAN COMPANY

20 West 27th St., New York.

Easter and Wedding Bells

FOR FLORISTS' USE

AA Novelty is now being introduced for Silver and Golden Weddings AA

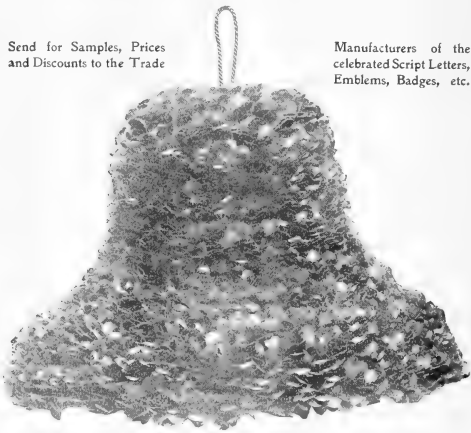
A NEW DESIGN MADE FROM

---RAINBOW SILK---

Under Patents held by the Korral Manufacturing Company. Furnished in sizes of 6 and 9 inches, and made to order for special display up to 24 inches.

Send for Samples, Prices
and Discounts to the Trade

Manufacturers of the
celebrated Script Letters,
Emblems, Badges, etc.



KORRAL MANUFACTURING CO., 26 Hawley Street, Boston, Mass.

**FANCY OR
DAGGER**

FERNS No. 1 STOCK,
only 75c per 1000

Galax, Brilliant bronze or green
5c per 1000

Use our laurel festooning for your
Decorations. It gives the best satisfaction of
any decorative green at this time of the year.
Sample lot on application, we make it daily.
gathered fresh from the woods. Hand made,
full sizes, 1c 5c and 6c per yard. Once used,
Branch Laurel, 35c per large bundle. Princess fine by the
pound or made into festooning when desired.



CROWL FERN CO., MILLINGTON, MASS.

Bells! Bells!! Bells!!!

We quote the following prices on

Christmas Bells

16 inch Bells	Per Dozen	9 inch Bells	Per Dozen
14 inch Bells	\$9.00	8 inch Bells	.75 to \$1.12 ½
12 inch Bells	4.50	5 inch Bells	.90
	2.25		.45

GUARANTEED HOLLY

Same price, same quality, as last year. Single case \$5.00; two or more at \$4.50; five or more at \$4.00.

Best American Mistletoe, bright and well-berried. Price reduced from 50c. to 35c. per pound

Laurel Roping

First Class Stock
6 cents per yard

Laurel Wreaths

Regular 12 in. Size
\$2.00 per dozen

N. F. McCarthy & Co.

Flowers and Florists' Supplies

84 Hawley Street. BOSTON



Canton China Plant Pot.



Canton China Hall-Seat or Plant Pot Stand.

Plant Pots and Pedestals

We invite the attention of intending buyers, or those interested in seeing the newest productions of the potters' art, to our importations of English, French, German, Japanese and Chinese **Plant Pots** or **Jardinieres**, selected by our buyers at the places of production in the present season.

They include all sizes and shapes up to the large and very large, from the lowest price up to \$150 each.

Our stock of China and Glass occupies seven floors and more than 10,000 bins.

Wholesale and Retail.

Jones, McDuffee & Stratton Co.

China, Glass and Lamp Merchants

120 FRANKLIN ST., BOSTON, MASS.

After March next on Franklin and Hawley Sts.

Business Managers

S. P. STRATTON, Treas.

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **PECKY CYPRESS**

Everything in PINE and METALOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co

Cor Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

GLASS

FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

TO YOUR ADVANTAGE

Write for Our Prices on New and Second-hand

Gulf Cypress Greenhouse Lumber, Hot-Bed Sash, Greenhouse Glass, Boilers, Pipe and Fittings, Steam Fitting Tools, Hose and Hose Valves, Ventilating Apparatus

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GREENHOUSE WRECKERS

1398 - 1408 METROPOLITAN AVENUE,
BROOKLYN, N. Y.

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Send your business direct to Washington. Save time and money. Letter service. Personal attention guaranteed. Twenty years active practice. SPECIALTY - Working out the Failures of Others.

SIGGERS & SIGGERS

Box 9, National Union Building
Washington, D. C.

Standard Flower POTS

If you greenhouse, or plant, or miles of the Capital, or any of the many

W. H. ERNEST,
28th and M Streets WASHINGTON, D. C.

CYPRESS WRITE FOR CATALOGUE.

GREENHOUSE MATERIAL

JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV CHICAGO

OF EVERY DESCRIPTION

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FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.

NEW YORK OFFICE 111 FIFTH AVE 74 FRANKLIN ST. BOSTON



PEERLESS REPAIR CLAMP
GLASS



MADE OF ZINC
SEND CLAMP IMMEDIATELY AND URGENTLY
For sale by jobbers. Box of 12 for \$1.00 or address
A. KLOPNER, Wauwatosa, Wis.

ROBERT J. DYSART,
Public Accountant and Auditor
Simple methods of correct accounting
especially adapted for florists' use.
Books Balanced and Adjusted
Mention Bank Building
28 STATE ST., BOSTON
Telephone Main 58

Holds Glass Firmly
See the Point of
PEERLESS
Glazing Points are the best.
No rubs or jolts. Box of
1,000 points 15 cts. postpaid.
HENRY A. DRESSER,
714 Chestnut St., Phila., Pa.

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NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY
King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.
In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
SCOLLY HOT WATER
and **STEAM BOILERS**
JOHN A. SCOLLY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material

Ask for our Special Catalogue No. 551 describing
Water Tubes, Boilers, Tubes, Sash, Lumber and Sup-
plies of every kind from the Fifty Mill on Dollar St.
Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL. For particulars address
John G. Esler, Saddle River, N. J.

Holiday Greeting

To Our Customers and Friends

The Florists and Growers of the United States

We return hearty thanks for the greatly increased volume of business accorded us this season of 1905. We are prepared to handle a larger share of your orders the approaching season, and will do it to your satisfaction and advantage. Just try us—and profit by it.

Sincerely yours,

FOLEY MANUFACTURING CO.

FOR NEW STRUCTURES OR REBUILDING BE SURE TO GET OUR ESTIMATES ON

Cypress Sash Bars

In all lengths and sizes.

Red Cypress Heart Posts

Any length free from sap.

Pecky Cypress Benches

Most economical and lasting.

Hotbed Sash and Frames

Various sizes and styles—prompt shipment.

Foley Ventilating Apparatus

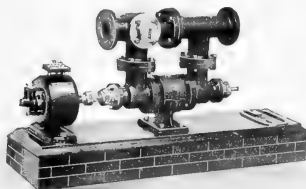
"It works like a charm," they all say.

Pipes, Fittings, Glass

and all materials needed.

Get Our Figures, Sketches and Suggestions on Your Proposed Work.
Illustrated Catalogue Sent Prepaid.

FOLEY MFG. CO. 471 West 22nd St., Chicago.



How's Your Circulation

These cold nights tell. If there are any symptoms of congestion and the hot water doesn't travel promptly through from the boiler and back again without wasteful coal consumption there's trouble and big fuel bills ahead for winter. We can absolutely cure this. The Holly-Castle Circulator overcomes all troubles due to defective piping. Does not obstruct direct circulation. Can be attached to any system of piping already installed, at slight expense. Built in sizes to circulate from 100 to 1000 gallons per minute. It makes no difference where the boiler is placed, the Circulator compels it to heat the houses. Already installed in a number of first-class establishments in New England, New York, Pennsylvania, New Jersey and elsewhere. Can be put in with but a few hours' disconnecting of pipes any bright day. It will save its cost in fuel in one season. Write us what your trouble is.

HOLLY-CASTLE CO., Engineers

49 FEDERAL STREET,

BOSTON, MASS.



COMPARISONS

Go to one of our customers (we will give you the name of a nearby one), take a look at his greenhouse---see why it's a better house than any one else makes---examine the kind of cypress we put in it; take a look at the ventilating devices, and find out if it is really easy running, self-locking and all that sort of thing. Look over the piping for the anti-friction places; compare the old headers and endless joints and connections with our new automatic headers. Peer into the boiler door for the self-cleaning and area extended fire surfaces. Look at the sections of the boiler, satisfy yourself that a bolt to each section is away ahead of the old long bolt connection; then go outside and try the rigidity of the cold frame sash, and find out if the bolted angle iron corner braces on the frames are really any good. If you order now, we can have the house ready when you are ready.



Send for Catalogue J. G.

Burnham Hitchings Pierson Company

GREENHOUSE MANUFACTURERS AND BUILDERS

1133 Broadway Cor. 26th St., New York. Boston Branch, 819 Tremont Bldg.

HORTICULTURE

Vol. II.

DECEMBER 16, 1905

No. 25



FIGUS BED AT BOTANIC GARDEN, WASHINGTON, D. C.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

Fear Not — We Will Not Fall Down On

VICTORY

THE BEST SCARLET CARNATION

Here are several reasons why you should grow—VICTORY

It is a money maker being remarkably prolific.

Its vigor of growth is second to no other and way ahead of its rivals.

It is a Fancy, in the fullest sense of the word and sells for highest prices, its color being a brilliant scarlet.

All those who saw Victory growing are unanimous in their opinion that it is absolutely the best Scarlet Carnation to-day.

As a keeper and shipper, Victory is a "Globe Trotter," and has no equal having travelled such long distances as Chicago, St. Louis, Louisville, Indianapolis, Milwaukee, Columbus, Toronto and Kansas City. At each of these exhibitions Victory has secured the highest possible recognition.

\$2.50 per dozen.

**\$12.00 per 100.
250 at 1000 rate.**

\$100 per 1000.

A. J. GUTTMAN

The Wholesale Florist of New York

Telephone 1664-1665 Madison Square

CHAS. WEBER

Lynbrook, L. I.

Send all correspondence to 43 West 28th Street, New York City.

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SUPPLEMENT TO

HORTICULTURE, VOL. II, No. 25

DECEMBER 16, 1905



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HORTICULTURE

VOL II

DECEMBER 16, 1905

NO. 25

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPICE—Ficus Bed at Botanic Garden, Washington		THE FLORA OF HAWAII—Geo. Morrison—Illus- trated	656
THE HORTICULTURAL RITES OF CHRISTMAS —Louis C. Elson	649	OBITUARY	658
A FEW OF VEITCH'S RECENT INTRODU- CTIONS FROM NORTHERN CHINA—J. A. Pettigrew	649	CUT FLOWER MARKET REPORTS Boston, Chicago, Cincinnati, Indianapolis, Louisville, Minneapolis, New York, Philadel- phia	663
CHRYSANTHEMUM TOPICS—C. Harman Payne.	650	MISCELLANEOUS	
PLANTS HARDY AND TENDER—W. R. Gilbert.	651	After Adjournment	653
HINTS ON BOILERS AND HEATING	651	Ellen Weiss: An Appreciation—G. C. Watson.	653
EDITORIAL	652	Chrysanthemum Scraps	653
OUT OF THE BEAN POD—R. T. McGorum	653	San Francisco Notes	655
OUR FRONTISPICE	653	Seed Trade	655
NEWS OF THE CLUBS AND SOCIETIES		Philadelphia Notes	655
New York Florists' Club	654	Building in Montreal	655
Nassau County Horticultural Society	654	The Postal Progress League	657
Montreal Gardeners' and Florists' Club	654	Personal	657
Newport Horticultural Society	654	House of Cattleya labiata—Illustration	658
New Bedford Horticultural Society	654	New Fuel from Petroleum	658
Gardeners' and Florists' Club of Boston	655	Carnation Morsels	660
Club and Society Notes	655	Business Changes	667
JOHN SCOTT—Portrait	655	Cincinnati Parks	667
		Greenhouses Building or Projected	670
		New Publications	670
		List of Patents	679

SUPPLEMENT WITH THIS ISSUE

LOCAL REPRESENTATIVES

BUFFALO, N. Y.—E. C. Brucker, 385-87 Ellicott St.
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The Horticultural Rites of Christmas

Many of the most charming portions of the social festivities of Christmas have descended to us through the ages from the old Roman Saturnalia and the ancient pagan worship of northern Europe. After Caesar had reformed the calendar the celebration of the rites of Saturn took place in Rome on December 17th. Other festivities, sacred to Ops were added and finally the old Romans made the season a whole week of rejoicing. During the long festival no wars were declared and no battle was fought. No punishment was inflicted; all schools were closed. All distinctions of rank were abolished and slaves sat at table with their masters. All classes exchanged gifts and many banquets were held. It was customary to deck the homes in ancient Rome, at this season, with every green plant that could be obtained, and this delightful floral custom was very early transferred to the Christian festival.

But the wild frolics of the Saturnalia were by no means the only pagan custom taken up by the Christians in more northern climes. Many Scandinavian rites were copied by the Christians long ago. The worshippers of the god Thor used to celebrate the Feast of Juhl, at the Winter solstice, by building large bonfires. From this festival came the early English custom of bringing home the Yule log on Christmas eve. The great block of wood was drawn with much ceremony from the forest and every passer-by lifted his hat to salute the harbinger of Christmas as it passed on its way to the baronial hall. The very name of "Yule" was transferred to the Christmas-tide.

The ancient Druids worshipped the god Tutanee, who seems to have been much the same kind of a deity as the Phœnician god Baal—the sun-god. At the time of the Winter solstice they went to the forests and with great ceremony gathered the mistletoe which grew upon the

favorite tree of their deity—the oak—and carried it to their altars in solemn procession. The mistletoe of the Christmas decorations is but a survival of this pagan custom. The mistletoe which the Druids gathered (and which was cut with a golden knife by a priest clad in white) was finally distributed among the people and by them hung over their doors as an offering to the deities of Spring during the season of frost and cold. The kissing attached to it at present is a modern improvement.

Still another horticultural custom of ancient times is found in the Christmas tree. In pagan times almost all the northern vikings and semi-savages were tree-worshippers. In Scandinavia the ash-tree Yggdrasil was supposed to support heaven and earth. The vikings built their dwellings around this tree and held it sacred in every way. Its branches were supposed to extend over the whole earth, its top to reach heaven and its roots to touch hell. The three Fates, or Norns, were supposed to sit under this tree and spin the threads of all human destiny. Three springs watered the roots and the tree was supposed to drop honey. Other equally extravagant touches of tree-worship existed in pagan Germany. And all this tree-worship is now represented by the joyous gathering around the Christmas-tree, a tree that gives as much joy to the whole earth as Yggdrasil ever did, while the furious license of the Saturnalia is changed to a tranquil family joy, and the green decorations to the sylvan deities have been transformed into graceful garlands of Christmas flowers.

Louis C. Elson

A Few of Veitch's Recent Introductions from Northern China

Probably more good plants have been introduced to the horticultural world through the energy and enterprise of the Veitch family of nurserymen than by any other commercial agency. It is also probable that never more than at the present time has the firm such reason for gratification for new achievement in this respect. Mr. E. H. Wilson has recently returned from northern China, after an absence of six years, where he has been employed by the Veitch firm as collector. During this period he has forwarded an immense amount of material in plants, seeds, and dried specimens. Mr. Harrow, their manager at Coombs Wood, informed me that they had about 2500 specimens of plants under observation and trial as the result of Mr. Wilson's work in China. Mr. Wilson is well equipped by ability and training for such a mission as the one with which he was entrusted. In view of this consideration, the promising field of operations, and the mass of material sent home, it is pardonable if the hopes and expectations of the veteran

firm of nurserymen, as well as those of plant lovers everywhere, are raised to a high pitch.

I was privileged to see a good deal of the stock in various stages of growth; in some cases seedlings and small plants, unknown (except as dried specimens), and from these to fair sized specimens in the show grounds.

I hurriedly noted a few which I considered of unusual merit, as follows:

Celastrus latifolia, very strong with fine and large foliage.

Lilium sutchunense, orange scarlet, black spot, very floriferous, about three feet high. This species had previously been introduced into France by Vilmoren.

Lilium nyctophyllum, a fine thing with large crinum-like flowers, of a bluish white color with yellow throat, about four feet high.

Cotoneaster applanata, dense, evergreen, procumbent, very branching.

Rodgersia pseudifolia and *R. pinnata*, nat. ord. Saxifragaceae, foliage plants for waterside planting.

Davidia involuerata, natural order Hamamelaceae, a shrub or small tree with large, showy, white bracts.

Viburnum rhytidophyllum, a plant from which much is expected, of very free growth, leaves rugose, hoary beneath, branchlets ferruginous, foliage large and fine.

Primula pulverulenta, pulvurous stem, three feet six inches high, flowers rich crimson, a most beautiful and promising plant.

Rubus flagelliformis, a beautiful climber with purple blotched leaves, resembling those of *Cissus discolor*.

Rubus bambusarum, climber, leaf with three narrow lobes, white beneath, vigorous grower, good for rock work.

Vitis megaphylla, aralia-like leaves, strong grower.

Vitis fleuveosa major, very dark green foliage, vigorous.

Vitis Thompsonii, five-parted leaf of purple hue.

Rubus lasiostylus, white stems, large pinnate leaves, white beneath, a reintroduction.

Cornus paucinervis, flowering July 22, white, useful for late flowering.

Astilbe grandis, strong and bold, four to five feet, flowers white.

Astilbe Davidiana, pink, five feet, both of these are very fine, good for waterside planting.

Acer Davidii, trifoliate leaf, good.

J. A. Peligrew

Chrysanthemum Topics

AUSTRALIAN VARIETIES

Seedlings raised by Pockett, Kerslake and Brunning—all Australian growers—are very much to the fore again this season in the collections of English importers such as Messrs. Cannell & Sons of Swanley and Messrs. W. Wells & Co. of Merstham. It is evident that the Colonials are keenly alive to the necessity for energetic competition with their older rivals, the French, of whom Ernest Calvat still remains the chief.

SOME NEW YELLOW VARIETIES.

Considering that our popular autumn favorite derives its name from the Greek words meaning golden flower it is not surprising to find that so many of the grandest show blooms are of various shades of yellow. These range from pale sulphur to the most gorgeous of golden yellows and many of the new varieties of the past year or two certainly belong to that color.

Mrs. W. Knox is a Japanese with long drooping florets, a flower deep in build and of fine form, color pure golden yellow; was seen in excellent condition at Messrs. W. Wells & Co. Mrs. J. M. Darcy, another of the same color. Mme. G. Rivol is a pure yellow sport from Mme. Paolo Kadaelli, same form of flower as the parent. Roi d'Italie has very narrow pointed florets, a most compact bloom—pure pale yellow; does well both in England and in France. British Empire, a new seedling of Norman Davis, very large Jap., medium florets, rich golden yellow. New Treaty, from the same source; also a grand new yellow, Lady Talbot, a Colonial, very perfect in form and deep in build, rather narrow, twisted, intermingling florets, pure soft shade of deep sulphur yellow. Le Pavon, a Jap. of incurving form, close and compact in build, a grand bloom, color rich

deep golden yellow. Romance, a Colonial, which with the two preceding was seen at Messrs. H. Cannell & Son's, a fine solid built incurved, more globular in form than C. H. Curtis, but similar in color. Nivose, a Japanese raised by Calvat, has narrow grooved florets; a good sized bloom of its type; pretty shade of canary yellow. Mrs. Spender Clay, an immense Jap. with very broad florets; color pure pale yellow, reverse silvery. Chrysanthemiste Montigny is not new but is a giant in size, sulphur yellow. Embleme Poitevine is a noble incurved, close and compact, very globular in form, pure golden yellow.

At Paris amongst the seedlings, for 1906, Madagascar was Calvat's finest Jap., immense in size, very full and double; color a lovely shade of the richest golden yellow. Farladet was another with florets curly at the tips, a very full flower somewhat spreading in form, golden yellow tinged with bronze. Calvat also showed Pres. Gerard, another yellow monster, Victoria and Albert. Fusce. M. Rozain-Bouchard had a lot of seedlings but the best of his was Pelican Jaune, a Jap. with immense length of floret, a mass of intermingling florets that are rather broad; a fine yellow.

THE MARQUIS DE PINS

This new raiser, who made rather a brilliant show at the Paris Chrysanthemum Exhibition for several years in succession was quite out of the running, last show. He had the misfortune to be taken unawares by a sharp frost early in the season and his lot of novelties for 1906 was spoilt. However he managed to get together a few for the Paris Show and was awarded four first-class certificates.

Among the numerous exhibits we noticed a fair percentage of his varieties represented in more or less good form. His seedlings would appear to be more suitable for culture in France than in England, although in the latter country several have been tolerably well shown of late. American specialists are, I believe, not total strangers to the Marquis de Pins seedlings and it may interest such to mention briefly just those which were well shown at the last Paris show. They were Anne Marie, Charles Bocque, Belle l'Isloise, Mme Marie Carrere, Mme. Lasies, Yolande de Pins, Souvenir de Lombes Verge, Monbrunoise, Solange, Souvenir de Cologne.

AMERICAN CHRYSANTHEMUMS IN EUROPE

Some of us can well remember the advent of the first American seedlings into European collections and the important part they once played on the showboards at our exhibitions. Today, however, they are rapidly dwindling and owing to the strong competition of French, English and Australian seed growers they seem destined sooner or later to become extinct.

During my visits to the various shows in London and Paris this autumn I have come across some of the American varieties that were freely grown in days gone by. It may be interesting to record them, if only there were the slightest chance that American growers would again enter the field. The following are those met with during the past season, viz.: Delaware (the Anemone), Hairy Wonder, William Tricker, a most useful dwarf-growing, bright pink variety; Mutual Friend, W. H. Lincoln, The Egyptian, W. Falconer, Eda Prass, Mrs. Henry Robinson, G. W. Childs (once a very famous crimson), Col. W. B. Smith, Col. Appleton, Modesto.

Chasman Payne

Plants Hardy vs. Tender

The technical terms hardy and tender, as used by horticulturists are relative rather than absolute in their meaning, and when we ask why some exotic plants are hardy and withstand climatic vagaries, while others from similar latitudes and elevations are not so, the reply is apt to be ambiguous or otherwise unsatisfying. Broadly speaking, plants from other countries, where the extremes of temperature are similar to our own, are hardy, but this is a rule with many exceptions.

On the other hand, there are plants from countries the mean temperature of which is much warmer than those to which these plants are translated which nevertheless pass through an average hard winter with impunity. Temperature is by no means the only factor which decides whether a plant is hardy or tender in our climate, since soil, moisture, aspect and shelter all enter more or less into the question. In a word, exactly why some plants are hardy in our open air gardens, and others sooner or later die off in them, nobody knows, and science tells us little or nothing about the matter. To know the geography, latitude or elevation of a plant in its native home helps us very little. For example, two species of plants may be found growing together at a certain altitude on the Andes or the Himalayas, and, when brought home to our gardens, the one will prove hardy and the other will die out if exposed in the open air. Why this is so neither physicist nor physiologist has as yet told us, but there must be some natural laws underlying the problem.

While we wait for more light on this very intricate question, the only thing for the gardener to do, be he amateur or professional, is to make experiments for himself and to watch those made by others, whenever he can. As I have said previously hardness is relative and not absolute. For example, because some plants are quite hardy in Florida, and like favored parks, it by no means follows that they are hardy when planted farther north. Again much more than mere hardiness is desirable. Many plants are hardy in the sense that they do not die in a particular climate, but at the same time they are never luxuriant and beautiful. In the case of outdoor ornamental plants we not only want them hardy, but healthy and happy as well. This is why we add to the advantages of climate or proximity to the sea other cultural advantages, such as good soil, manures, shelter, shade, or full exposure to sun-line, which experience teaches us as being most desirable for different things. Locality means a good deal, but it is not everything, since many things can be grown in the sheltered valleys and glens that are impossible on the wind swept hills or slopes in the immediate neighborhood. Seeing the many failures that follow the planting of things not really hardy, it becomes obvious that trees, shrubs and other plants intended for cold and exposed places should be obtained from nurseries where they have been reared under similar or even worse conditions.

It has been suggested that the locality in which particular plants do especially well should be added whenever such are described, and up to a point that rule would be a good one; but in the same district, in the same county even, there is a too wide diversity of circumstances, and, as I have already said, hardness is merely one of many other factors that render plants beautiful or welcome in gardens generally. Much depends on artificial or cultural methods. In the case of lilacs, rhododendrons, clematis, and many other trees and shrubs, including the whole group of garden roses,

many failures result from grafting such things on common and often ill-fitted stocks, instead of rooting them from layers or cuttings. Another source of failure even in the case of perfectly hardy trees reared from seeds, results from growing on the seedlings in pots, instead of cultivating them naturally in open air quarters from the seedling stage. Two evils result from the early pot culture of hardy trees and shrubs, viz., their tap roots become spirally contorted, and never afterwards take a firm grip of the ground. Hence the tree is stunted, and never grows to its full size, while the chances are that it will be blown over by a gale long before it reaches maturity. The point of the whole question is that we already possess an almost endless supply of plants perfectly hardy, that are also healthy and beautiful almost everywhere, and it is on these as naturally increased from seeds, layers, cuttings, or other divisional processes, that we should mainly rely for our best effects in the garden. With things new and unknown there is no reliable way of our knowing their hardihood or value as being effective, except by actually testing them each for ourselves and in our own gardens.

A. R. Gilbert

Hints on Boilers and Heating

The old practice of installing a new boiler for every additional greenhouse to a range has gone by. The result of this method was a cellar full of boilers, numerous fires to run, waste of coal, and time. Since the advent of sectional boilers, and the marked increase in the demand for cut flowers and plants necessitating large ranges of glass, methods have changed.

A man or firm starting in the commercial business today does not as a rule commence with one or two houses unless they are of extra width and length. Less than 12,000 square feet of glass for a cut flower plant to cater to the wholesale market is not very profitable, that is, if the plant is to be run on business principles keeping the general expense in a good business ratio to the sales, and leaving a profit at the end of the season. A range of the size mentioned would require about 4500 feet of boiler power for a temperature in each house of from 55 degrees to 60 degrees in zero weather, or in other words, boiler power sufficient to take care of about 4500 feet of radiating surface, including mains, and to this should be added about 25 per cent, for surplus power, making a total boiler power of about 5600 feet. Working boilers up to their full capacity or rating is poor practice, as fuel is wasted, and they require frequent attention. If extensions are made to the plant the boiler power can be increased by adding sections up to a practical limit.

For a range of the dimensions given two boilers should be used of equal capacity, thereby providing against loss and delay in case of accident to either. This method also saves fuel in mild weather such as early spring and late fall when one boiler will usually perform the work. Most makes of boilers are not tested by practical demonstration before being placed on the market, consequently a liberal allowance should be made in estimating power required. Time should be taken before purchasing a boiler to visit a plant where the particular boiler which is recommended is being used, and note that it is performing the amount of work which it is rated for, easily, and that it can be left from eight to twelve hours at night without attention.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE

GARDENER AND KINDRED

INTERESTS

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WM. J. STEWART, Editor and Manager.

Write
to your
Congressman

Two matters of far-reaching importance to the readers of *HORTICULTURE*, which are to come before Congress at its present session, are the Postal Progress bill and the plan for saving the forests of the White Mountain country, or rather the small remnant of those forests now in existence. If anything is to be accomplished in the last-named it must be done *at once*. Every one who reads these lines is earnestly requested to communicate with his representative in Congress and urge that he do all possible for the immediate consideration and prompt enactment of this most important bill.

Advertisements
as a gauge
of progress

Christmas is but two weeks away. Christmas plants and Christmas flowers with their cheerful colors are already here and the dealer who has not made definite plans for securing a stock distinctively appropriate may set himself down as lacking the instincts and enterprise which this great occasion warrants. No better incentive to energy on these lines can be found than the advertisement columns of this paper. They are full of suggestiveness and the business man will peruse them with an interest equal to that felt in the regular reading columns, for they mirror as no other medium can the highest point of development to date of the industry they represent.

What
we give
for one dollar

HORTICULTURE.

If every one who reads these lines should send in before January 1 a subscription for self and one friend for the coming year it would indeed make a very happy New Year for *HORTICULTURE*. Yet it could be a simple matter, one

calling for very little sacrifice. Stop and consider for a moment what \$1.00 so invested buys for you. A volume of approximately 1500 pages of which fully one-half is original reading matter including 250 pages of contributions on practical topics by the leading horticultural lights of our own and foreign countries, complete records of the doings of clubs and societies, 52 pages of editorial matter on subjects of live interest, weekly quotations on cut flowers from all the wholesale markets, hundreds of half-tone pictures and thousands of news items. Add the equally instructive advertising pages and consider whether all this, delivered free at your house or place of business, is not a big dollar's worth. Our aim is to give you the best that money will buy. Send in your dollar for 1906 and we will do the rest.

Arranging
decorative plant
groups

The arrangement of pot plants in decorative groups offers a field for the exercise of the very highest artistic taste, yet how rarely is this taste displayed! As soon as mixing of kinds begins incongruity presents itself and, whether in commercial decorative work or in arrangements at public exhibitions, ingenuity is almost invariably the quality most in evidence. All consideration of forms of foliage, habit of growth or relationship of one plant to another seems, in the majority of cases, to have been ignored and the purpose of the workman appears to have been to present as nearly as possible merely a solid surface of foliage, so that outlines and character of individual components are all concealed. Excessive formality in the outlines of the group itself is a characteristic of the typical exhibition hall group. Occasionally we see evidences of an effort on the part of the arranger to break away from the conventional cone-shaped outline but he doesn't get very far. It is to the exhibitions that we should look for lessons in this difficult, yet fascinating, art. A breaking away from the stereotyped style is in order. Who will set the example?

Our Supplement

The beautiful colored plate sent out with this issue of *HORTICULTURE* will give a good idea of the wide variety of tints and large size of bloom already developed in the hybrid forms of *Nicotiana Sanderae*. We regard this introduction of Messrs. Sander & Sons as the most useful garden subject acquired in a number of years. If planted in a slightly shaded locality it will succeed better than in full sunlight and to get the best effect it should be used in the irregular border with a substantial background of dark foliated material where its myriads of blossoms can tumble about in picturesque abandon. Don't mass it in isolated formal beds.

AFTER ADJOURNMENT.

The plant decorations in the conservatory of Mrs. B. P. Cheney, Sr., which formed the subject of our frontispiece in issue of December 10, were furnished and arranged by John Barr.

Our New York contemporary, editorially commenting upon the proposed S. A. F. exhibition at Boston, states that "the Boston people have expressed themselves as being averse to the project, so far as the selection of that city was concerned and have suggested New York as the proper place for a beginning to be made along this line." We would respectfully ask our esteemed contemporary to whom it refers as "the Boston people."

OUT OF THE BEAN POD.

I forget who it was that said that it would take a surgical operation to get a joke into a Scotchman's head. Probably he had in mind the stale jokes. But give that same canny Scot a good thing and it don't take him long to take it in. I always have been rather skeptical of new things, but an invitation last week to the place presided over by Mr. Matthews at Harrison Square, to see something new, acted as a magnet and drew me thither to see the workings of the Holly-Castle Circulator. I give Mr. Matthews credit for having some of the best and cleanest stocks of carnations and mignonette I have seen for some time, but I was all attention when shown the circulator, and when told what it would accomplish, I had my doubts.

Sir Isaac Newton saw the apple fall from the tree and gave us the theory and fact about the laws of gravity; but when hot water heating can be accomplished with the best results without the aid of gravity, then it is an interesting thing. I will try to explain what it really is:

An ocean steamship is governed by a propeller; driven one way, that ship moves forward, driven the opposite, she goes backward. That is the principle of this machine. It is a propeller principle drawing the water from the return pipe, forcing it into the boiler, and keeping the water circulating without being obliged to wait till the water gets hot and expands in the natural way. It is placed at the lowest point a few feet distant from the boiler, direct-connected to a 1-6 horsepower electric motor, costing in this case, 1-1-2 cents per hour to run. The cheaper electricity can be bought, the less it will cost to run the machine. To understand it better: The cost of running two 16-candle power incandescent lamps would be the same as running the machine. Simplicity of construction is a very potent feature—there is nothing to get out of order. A No. 3 is used here, making 3000 revolutions per minute, delivering 150 gallons in the same time to the boiler. While I was getting this information, Mr. Matthews was starting the fires up to heat the water, so as to show it

working. When the circulator was started the thermometer on the flow pipe in the boiler room showed 170 degrees. On the return, just below that of flow, it registered 85 degrees. At the furthest point distant to the end of the house 200 feet the water was 100 degrees, and at the end of eight minutes' running, by watch, there was just six degrees difference in the temperature of the water in the flow and that of the return in the boiler room. The circulation had been so swift that it had lowered the temperature in the flow, and raised it in the return, with a slight variation of temperature—six degrees—which is a very small loss for radiation, when one takes into consideration the size of house, 50 feet wide. I was told that with two boilers running and drafts wide open, the house could barely be kept up to the desired temperature, but with drafts all closed and the circulator running, it can be kept higher, with less consumption of coal, and when little heat is wanted the circulator can be kept running so as not to bring back the whole volume of water, but just enough to circulate slowly. There is a controlling device for this purpose.

I should advise all florists to make it a point to go and see this machine. I am sure Mr. Matthews will be pleased to show it to any one interested. Those using steam as well as hot water will find something to their advantage and will feel well repaid for their visit, as it can be connected to steam returns, thus saving dollars at present waste. I don't think the gentleman who got up this patent need lay awake nights, if all his machines work as well as the one I saw. Both he, the florists and others who may use them will reap rich benefits.

R. T. MCGORUM.

OUR FRONTISPIECE.

Our frontispiece shows a fine bed of forty species and varieties of ficus as planted at the Botanic Garden at Washington during the past season. On reading the list appended hereto, one is impressed with the fact that only one or two of these are at all familiar to the public, although it is reasonable to assume that many others named possess the qualifications needed to make them popular as house plants. One of the practical uses of such a group as we illustrate is the opportunity it affords to commercial plant growers for noting the comparative value of the different species and selecting from among them such as show characteristics liable to win popularity, and are also of sufficient rapidity of growth and ease of propagation to make their multiplication and dissemination easy and inexpensive. The bed contained the following named sorts:

Ficus lanceolata, stipulata arborea, elastica, elastica variegata, Cunninghamii, lucida, oppositifolia, Cooperi, pyrifera, Parcellii, aurea, macrophylla, quercifolia, scandens, fuscata, nitida, sycamorus, venosa, carica, nympheaphilus, religiosa, indica, racemosa, ferruginea, altissima, macrocarpa, dealbata, infectoria, lutescens, radicans major variegata, radicans variegata, cerasiformis, pandurata, brasiliensis, Chauvieri, Afzelli, repens, acuminata, barbata and comosa.

ELLEN WEISS: AN APPRECIATION.

An old lady gathered to her fathers! That's all, so say the unthinking. Ellen Weiss, widow of Thomas Weiss, passed away at her home in Germantown, Phila., Dec. 11th, and was buried in Ivy Hill cemetery on Dec' 13th. Such is the commonplace announcement we read in the obituary, but no commonplace identity is referred to. Ellen Weiss was the type of woman that is all too rare in these degenerate days: a mother and a manager! President Roosevelt would have delighted in such a personality. Moses Rice, who knew her for twenty-five years, tells me of her wonderful ability to set up the finest kind of house-keeping for her husband and children while at the same time conducting a florist business at the old railroad depot in Germantown. I suspect a dimming of the eyes and think I detected a tremor in the voice of the narrator as he told me this, and I also caught the gleam of enjoyment as he told me of her old-fashioned German distrust of banks and how she stored the money away in the center of carpet rag-balls. Of her shrewdness in buying, one instance in particular, having to do with Edwin Lonsdale, when he first began growing fuchsias 25 years ago, is sufficient to indicate her managerial quality. She would haggle and bargain with the young greenhorn until a quarter seemed a shameful price to him! But her conscience never troubled her a mite when \$1.00 and \$1.50 was raked in for the same thing later in the day. When Eugene and Harry Weiss, her sons, got established in business on 8th street, Philadelphia, and Haboro, she retired from the commercial arena, so that few of the younger generation knew much of her redoubtable and admirable character. Personally, I agree with the President that the proper place for the woman is the home. But there are a few exceptional characters that can keep their homes and at the same time conduct a business too, and to such an one—God bless her!—we must all take off our hats and acknowledge her worth. Ellen Weiss has left an honorable record of duty well done and a fine example for her posterity to emulate; than which no finer thing can be said of any one when the final story is told. GEORGE C. WATSON.

CHRYSANTHEMUM SCRAPS.

Golden Chadwick is a better sort than Yellow Chadwick and stands among the finest of the late varieties.

Mme. Jean Roset is a splendid incurved flower, nearly same color as Wm. Duckham but carries about three times as many petals.

Montreal reports an increased popularity for chrysanthemums this season. The supply has not been equal to the demand, and good flowers have brought big prices.

The Country Calendar has been consolidated with Country Life in America, and all editorial and exchange correspondence should be sent to Doubleday, Page & Co., New York.

NEWS OF THE CLUBS AND SOCIETIES

NEW YORK FLORISTS' CLUB.

The meeting of this club on Monday evening, Dec. 11, was one of the largest in its history. The election of officers for 1906 was the special business of the evening, and rival candidates had their friends on hand in full force. Before proceeding to ballot, Messrs. C. H. Totty, S. S. Butterfield and L. B. Craw, candidates for president, secretary and treasurer, respectively, withdrew their names from nomination. The result of the voting, as announced by the tellers was as follows: President, John Scott; vice-president, J. H. Pepper; secretary, John Young; treasurer, C. B. Weathered; trustees, John Birnie, C. H. Totty and Julius Roehrs, Jr. All these elections were afterwards made unanimous. Each of the gentlemen was called to the platform, where they severally extended their thanks for the honor conferred, and promised to work faithfully together for the benefit of the cause during the coming year. The election of a successor to fill out Mr. Scott's unexpired term on the board of trustees was made an order of business for the next meeting.

On behalf of the committee appointed to draw up suitable condolences on the death of William Ghormley, J. Austin Shaw presented a set of resolutions setting forth the great loss sustained by the club, and extending sympathy to the bereaved family. A committee consisting of Messrs. Wallace, O'Mara and Stewart, was appointed for a similar duty in connection with the death of Mrs. C. H. Allen. Mr. O'Mara spoke a few words of eulogy on the late John Morris, formerly an active and influential member of this club.

On the exhibition tables were some very interesting displays, including the following: H. Maenner, well-grown cyclamens; Lager & Hurrell, orchids, among which were a very dark-flowered *Laelia elegans* and a spike of bloom of *Calanthe vestita* McWilliam's variety; F. Boulon, a light pink sport of Lawson carnation; Cottage Gardens, carnations Alma Ward, white, Robert Craig, scarlet, and a pink seedling, No. 569; E. L. Enggren, seedling carnation; F. R. Pierson, a sport from Enchantress, which has been named Helen Miller Gould, and a white Enchantress sport. Cultural certificates were awarded to Herman Maenner and Lager & Hurrell.

W. J. Stewart being called upon to give some views on the Western exhibitions he had attended, addressed the meeting briefly, referring particularly to the clever manner in which the Coliseum had been handled by the Chicago florists and the way in which the difficult problem of interesting the retail florist element had been solved. He spoke appreciatively of the attractiveness of Kansas City, the hospitality of her florists, the adaptability of her Convention Hall and the superb support given by the public there to the flower show.

Alex. Guttman followed with some very interesting and instructive observations on the same exhibitions. He noted particularly the way in which everybody worked for the success of the shows, no local rivalries being permitted to interfere with the harmony and co-operation in every department. He presented letters from several Western parties, giving their views as to how their success had been made possible, and how it might be duplicated in Madison Square Garden. Harmony and hard work were the basis of the argument in every instance.

It was decided that this interesting topic be made the order of business for the January meeting.

NASSAU COUNTY (N. Y.) HORTICULTURAL SOCIETY.

This society held its December meeting at the Glen Cove Greenhouse on the 6th inst. The attendance was large, with President Harrison occupying the chair. The membership roll continues to enlarge, three being elected at this meeting.

Jas. Scott and W. Ross, of the F. R. Pierson Company, Tarrytown, N. Y., exhibited a pan of the N. Piersonii var. *elegantissima* fern, and a vase each of two sports of Enchantress carnation. One was their pure white sport, and the other a variegated one, which has been named Miss Helen M. Gould. The Pierson representatives had a busy time replying to questions asked them. This firm has kindly donated \$10 as a prize to be competed for at the next fall exhibition for an exhibit of Glenview chrysanthemum.

With this meeting the society closes its first year. The election of office-bearers took place. All the old ones were re-elected: T. Harrison, president; Jas. Holloway, vice-president; Alex. Mackenzie, secretary; Ernest Brown, treasurer; John F. Johnston, corresponding secretary.

JOHN F. JOHNSTON.

MONTREAL GARDENERS' AND FLORISTS' CLUB.

The monthly meeting of the Montreal Gardeners' and Florists' Club was held on Monday last. The chief topic of interest was the \$100 cup won by Tom McHugh of the Forest and Stream, for the largest chrysanthemum at the Toronto show. Tom was present—so was the cup, and was much admired. Montreal feels proud of both Tom and the cup. It seems strange that Montreal has no show, when we have the best growers among us. We were quite elated at learning that our late member, W. Wilshire, who went to Toronto, has been elected president of the Toronto Club. The report for the past year was very satisfactory, and the question of a spring exhibition was then taken up, but no action was taken. The new officers were elected for the ensuing year, with A. Gibb as president; A. H. Walker, first vice-president; J. Peddick, second vice-president; L. H. Horobin, secretary-treasurer; H. J. Eddy, assistant secretary. Committee: J. E. Eddy, W. G. Pascoe, C. Craig, A. C. Wilshire, E. Hayward, J. Walsh and J. Bennett.

NEWPORT HORTICULTURAL SOCIETY.

The annual meeting of this society was held Wednesday evening last, President James J. Sullivan in the chair.

The meeting was brimful of interest from start to finish. A new president was elected; neither of the secretaries, the treasurer or the sergeant-at-arms were changed. The records showed an increased interest on the part of commercial and private growers from other parts. The financial condition of the society is satisfactory; upwards of \$1500 was given in prize money during the year, besides medals and certificates. Taken all in all, President James J. Sullivan may give up office with the conviction that in his occupation of the same the society suffered not thereby, but benefited and advanced considerably.

Following is the list of officers for 1906: President, Alexander MacLellan; 1st vice-president, Bruce Buttrick; 2nd vice-president, Samuel Speers; treasurer, A. K. McMahon; financial secretary, Joseph Gibson; recording secretary, David McIntosh; sergeant-at-arms, W. F. Smith; auditors, Richard Gardner, Andrew S. Meikle, Charles D. Stark; executive committee, James McLeish, Richard Gardner, James J. Sullivan, Andrew Christensen, James Robertson, Andrew S. Meikle, James Boyd, John Mahan, Robert Patterson.

The annual ball of the society was held Tuesday evening, December 5, in Masonic hall. Under the skilful guidance of John T. Allan, who acted as floor manager, a good time was enjoyed by every one in attendance.

NEW BEDFORD HORTICULTURAL SOCIETY.

At the monthly meeting of this society held on Monday evening, Nov. 11, E. W. Hervey, botanist and author, gave an interesting talk upon the coloring of the leaves in the fall of the year. After alluding to the different opinions to be found in books, as to the cause of this change, the speaker invited his hearers to accompany him in a study of the trees themselves.

Mr. Hervey, after many years of observation, arrived at the conclusion that the moisture upon the leaves becomes congealed by the cold in the atmosphere at a time when the vigor of the trees is impaired by the heat and drought of summer when they are unable to withstand the attack, thus checking the active work of chemical agencies and causing a change in the color of the leaves—a change which is sometimes brought about by starvation or other unfavorable treatment. It is quite possible, the speaker said, for there to be sufficient frost to chill the leaves of the trees when the thermometer, in a less elevated position, registered several degrees above freezing. He also found the trees which grow in a sheltered, moist situation retain their green color longer than those which grow in a more unfavorable position.

Emanuel Sullivan presented the society with a cup, to be offered as a prize for 25 best cactus dahlias at the next exhibition. THOMAS WHITE.

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

The meeting of the Gardeners' and Florists' Club of Boston on Tuesday evening, December 19, bids fair to be the largest on record, as it is to be 'Ladies' Night' and Mr. J. K. M. L. Faruhat is to deliver a stereoscopic lecture on Japan. There will be music and refreshments in abundance.

CLUB AND SOCIETY NOTES.

The executive committee of the American Association of Park Superintendents held its regular annual meeting at Boston, on Thursday, 14 inst.

The Boston Market Gardeners' Association held its nineteenth annual banquet at the United States Hotel, Boston, on Thursday evening, Dec. 14, 1905. President W. W. Rawson filled the chair, as usual, with grace, dignity and amiable abandon.

At the last regular monthly meeting the Kentucky Society of Florists held the annual election of officers, which resulted as follows: President, Anders Rasmussen; vice-president, August R. Baumer; secretary, Fred L. Schulz; financial secretary, Louis Kirch; treasurer, C. H. Kunzman; sergeant-at-arms, Joseph Wettle; trustee for three years, Werner Susemichel.

SAN FRANCISCO NOTES.

This first week of December has been a week of funerals, and the overwrought florists say they never saw anything like it. At one notable funeral a carpet of greens and white roses was laid from the gate of the cemetery to the tomb, fully the distance of two city blocks. Sievers and Boland, Podesta and Baldoecchi and Frank Pelicano & Co. have had the lion's share of this work.

Mrs. J. R. Martin, general director of the great fall flower exhibition given a couple of weeks ago, has written briefly for the trade press that though the financial outcome was a trifle short, the show was not a disappointment. It was a beautiful show and we do not regard it as a failure but as a success.

The Pacific Coast Women's Press Association have commenced a campaign to overwhelm the next California Legislature with vox populi, to rechristen the State flower, the lovely golden poppy. The Castilian name, 'La Copa de Oro,' the cup of gold, is the name they want, not eschscholzia. Menlo Park Horticultural Society has elected the following officers for 1906: President, Sidney Clack; vice-president, Andrew McDonald; secretary, James T. Lynch; treasurer, George Nunn; trustee for three years, M. W. Carter; exhibition committee for the year, F. G. Hutchinson, J. P. Patterson, George Angus, Kenneth Murray and M. W. Carter.

SEED TRADE.

J. M. Thorburn & Co. have secured the entire building at 33 Barclay street, running through the block to 28 Park place, New York City, for their seed business. Extensive improvements will be made in the property, which will be ready for occupancy about May 1. The location is the best in the city.

JOHN SCOTT.

John Scott, the president-elect of the New York Florists' Club, is a native of Newlandrig, Dalkeith, Scotland. He served his apprenticeship at the Marquis of Lothian's, New Battle Abbey, under William Priest. He next went to the nursery of Ireland & Thompson at Edinboro, from whence he went to work again under Mr. Priest at the Earl of Englington's place. Taymouth Castle and Rosemont House were his next assignments. Then, in 1889 he came to America and was first employed under David Irving at Hoosick Falls, N. Y.; then under James Boyd, at Levi P. Morton's place in Rhinebeck, and later under Thomas Emerson, at the Dinsmore Estate in Staatsburg. He finally took a position in charge of the F. Scholes Greenhouses in Brooklyn, which, within three months became a commercial establishment, in which Mr. Scott had a joint interest. Six years ago he built



in Flatbush, and this year has doubled the glass capacity, moving the original Brooklyn greenhouses and business to the Flatbush location.

We have given at length Mr. Scott's varied and valuable experience under so many expert gardeners, because it throws a light on the remarkable success he has met with as a commercial plant grower, and to call attention to the kind of training from which our best commercial plantmen spring. Mr. Scott's name is indelibly fixed in the minds of florists everywhere, through its association with the valuable nophrolepis sport which bears his name. That he will make an able and widely-respected president of the influential New York Florists' Club is a foregone conclusion.

Gen. W. J. Palmer and Dr. W. A. Ball have presented to Colorado College an estate valued at \$15,000, situated 20 miles west of Colorado Springs. The purpose of the gift is to establish a school of forestry for the college.

PHILADELPHIA NOTES.

Netting the present popularity of beech sprays, it is interesting to record the claim of S. S. Pennock of Philadelphia as having been the first to introduce and popularize this item.

The standing of the teams in the Florists' Club bowling tournament up to the 13th inst. was as follows: Dunham, 6; Westcott, 3; Elmerman, 3; Moore, 2; and Connor, 1. A turkey handicap individual tournament takes place on the 18th, 19th, 20th and 21st. All members are eligible to enter.

Rustic crates are the latest for holly sprays at the H. F. Michell establishment. The cases are the usual size, 4x3x2, but with two-inch open spaces between the boards, showing the quality of the green and berries without breaking open the cases. Besides, the rustic boards can be used later for covering window boxes and so forth. It seems an ideal proposition; lighter also for freighting.

Jas. Walker, Youngstown, Ohio, was in Philadelphia recently, purchasing plants, flowers and greens for the Christmas trade. We understand the partnership difficulties of this firm, which have already been publicly noted, are amicably arranged. Mr. Walker being now manager of both the retail shop and the greenhouse plant at Youngstown. Mr. McLean is out of it and at present connected with another concern. It is reported that a very profitable business has been done the past few years.

The Thorn Hedge Greenhouses, located at Newtown Square, and owned by H. H. Battles, have been distinguished for several seasons for the fine quality of their poinsettia crop. This year's cut is panning out as good as ever, and from now until New Year's will be a big factor in the holiday cut flower market. Mr. Samuel S. Pennock attends to the distribution of this crop and feels proud of its fine quality. The Thorn Hedge people are also making a reputation for themselves on Farleyeans.

The many friends of David Bearme, who was a prominent figure in Philadelphia florist circles for over 30 years, and who went to Scotland for his health a year and a half ago, will regret to hear that the change has done him no good, the nervous affection continuing as bad as ever, although his health otherwise is fair, and he still continues to take an active interest in trade happenings on this side of the water. Things are a bit quiet in Thrums, so it any old acquaintance feels like dropping him a line occasionally, with the news of the day, it will be appreciated. Address, 21 Newton Bank, Kierriemuir, Scotland.

BUILDING IN MONTREAL.

Harris & Hopton have bought a property in the West End, and intend removing and building in the spring. During a recent visit to St. Anne's, I found both Messrs. Burrows & Williams building fine new houses, with all the very latest improvements. Norton & Jones built a fine new house at Lachine, and are sending in some fine tomatoes—Crimson Cushion they like the best. A. Gilmore, Montreal West, also built this fall.

The Flora of Hawaii

Any stranger to the Hawaiian Islands is impressed by the wealth and luxuriance of vegetation long before he sets foot on the land. As the steamer draws near to Honolulu, the principal seaport, the stranger on board is struck with the beauty of the scene before him. Indeed, a seaport with mountains in the background can hardly fail to be beautiful from without, and here to add to the effect is the wondrous green of tropical vegetation breaking the mass of houses and forming a rich transition between the town itself and the bare mountain tops behind.

On all the larger islands of the group—Hawaii, Oahu, Maui and Kauai—sugar plantations may be seen wherever the ground is not too irregular of surface to be cultivated in large areas. The sugar cane thrives from the tide level to an altitude of about two thousand feet, above which spread broad forests which, like those near Honolulu, rise regardless of the ruggedness of the ground until altitudes are reached where verdure ceases to exist, and the great cones of the crater mountains, 10,000 to 14,000 feet above the sea, are still red with stamp of volcanic fires upon them, or buried under the feet of recent snows. Of ferns, more than three hundred species and varieties are indigenous to Hawaii.

In the gulches and woods, and along the roadsides many fine species are to be found. Among them are the much esteemed *Davallia stricta*, *Dicksonias*, *polypodiums*, *aspleniums*, *cibotiums*, *nephrolepsis*, and many varieties of the *pteris*. Some of the tree ferns, which are extremely abundant in the woods from one thousand feet above sea level to the elevation of about six thousand feet, grow to prodigious proportions. The bases of the leaf stalks



SCENE IN A HAWAIIAN GULCH

of several varieties of *cibotiums* are densely covered with a soft, glossy, yellowish, woolly fibre which is a very desirable article for stuffing pillows and mattresses. It is called *pulu*, and until recently it was exported in large quantity to California. Large forests in Hawaii have been entirely destroyed for the sole purpose of obtaining *pulu*.

Only three orchids are indigenous to Hawaii. Of palms there is but one, although seventy-five or more species and varieties are to be found, and about twenty-five of them seed-bearing. Prince of all the ornamental trees on the islands is the Royal Palm, "*Oreodoxa regia*," which by its stately straight trunk and graceful top, gives picturesqueness to nearly every lawn in the capital. The original tree of the islands still stands in the lawn of Mr. Charles Gray of Honolulu; from it

came the seeds which produced the palms now growing near almost every town. The date palm, *Phoenix dactylifera* is also grown quite extensively upon the islands. Travellers' palm, *Ravenala Madagascariensis*, is a tree more closely related to the banana than to the palm. It is cultivated all over the islands. Its fan-shaped foliage makes it a tree of striking beauty, which never fails to attract the attention of a stranger.

Mr. W. R. Smith says in reference to the "Travellers' Tree," that by stabbing the base of the leaf a quantity of pure water is produced, a variable nature's distillate making pure water from poisonous material. (5)

The residents of Honolulu usually have large plots of ground around their homes in which may be seen many varieties of crotons, tree ferns, palms, groups of bananas, *Poinsettia pulcherrima*, and many other tropical plants. The bougainvilleas alone make a show worth seeing. I noticed three varieties covering archways and summer houses, growing to very large dimensions and flowering with great profusion. Flowers of various types and beautiful colors are everywhere to be found. The *Labordia Grayana* and *Labordia glabra* are so highly prized for wreaths (lairs), that at one time they were "tabooed" to common people, and reserved for the King and high chiefs. The fragrant and glossy branches of the *Alyxia olivaeformis* were largely used and highly esteemed for decorating the natives' houses on festive occasions. The *Drosera longifolia* is an insectivorous plant, and its leaves are covered with flies in every stage of decomposition. There are also four varieties of *pandanus*, one of which



ROYAL PALMS, HONO, HAWAII

Pandanus odoratissimus, is used by the natives for thatching their huts. *Opuntia tuna*, one of the cochineal breeding species, is found growing to a very large size, especially on the lower levels of the islands. The fruit is not unpleasant, though somewhat difficult to handle on account of its prickles. Two kinds are recognized, one bearing white, and the other red flowers. The leaves of the latter are eaten by cattle for the water they contain.

The night-blooming cereus, *Cereus triangularis*, is entirely at home upon the islands. It is grown extensively on stone fences, giving the semblance of an evergreen hedge. It blooms every three or four weeks throughout the summer. At the Oahu College, just outside of Honolulu, is a hedge over two hundred yards in length, on which thousands of blooms may be seen at any time. The Century plant, *Agave Americana*, may be considered thoroughly naturalized. Reference has already been made to the paucity of the native flora, both in genera and species. Its affinities are Polynesian, Andean, and Californian. The complete isolation of the islands has given a peculiar flora containing a larger proportion of endemic plants than any other country.

Hillebrand, in his flora of the Hawaiian Islands, describes eight hundred and forty-four species of phanerogamic plants, distributed over three hundred and fifty-five genera, and one hundred and fifty-five vascular cryptogamic plants, distributed over thirty genera, making a total of nine hundred and ninety-nine species and three hundred and eighty-five genera. Of these, it is believed that one hundred and fifteen species have been introduced since the discovery of the islands by Captain Cook. These are included in one hundred and one genera, twenty-two of which contain indigenous species. They include cultivated plants and trees, escapes from cultivation and accidental introduction, which, nevertheless are well established. The number has been increased since the publication of Hillebrand's Botany, and will continue with each recurring year. Besides the above, the native Hawaiians are believed to have introduced in prehistoric times at least twenty-four species.

Deducting both those introduced by the natives and by white men since 1779, there will remain eight hundred and sixty species distributed over two hundred and sixty-five genera, as original inhabitants.

The islands not only vary among themselves as to character of the flora, but each individual island varies in

flora in proportion to altitude. Therefore the flora of the country may be divided into groups occupying different forms of elevation: (1) The lower zone—the open country covered with grass only after rains, with isolated trees represented by few genera. (2) The lower forest zone, extending to a height of two thousand feet above the sea. The Kakai (oil tree) grows exclusively in the belt. (3) The middle forest zone, which lies within the region of the clouds, and develops trees and jungle in luxuriance; here the tree fern grows, attaining enormous dimensions. This zone extends to six thousand feet. (4) The upper forest zone, reaching nine thousand feet above sea level, is characterized by stunted trees; here strawberries and the Ohela berry (*Gacemium*) flourish. (5) Special groups of bog flora found on the high tablelands of Kaei and West Maui; here mosses, sedges and tussock-like grasses prevail. These zones are not fixed, but vary considerably with their exposure, rising higher under the leeward than on the windward side of the islands.

The size and characteristics of the plants vary in accordance with their environment. Heat, dryness of the air, and a scanty soil (especially in decomposed lava) check vitality, dwarf the plants, and sometimes impose new properties. A short period of growth follows an occasional rainfall, and then a long repose with effect to sustain life.

These varying conditions, acting through a series of years, have the power of modifying pre-existing qualities and impressing new ones, thus producing variations from the normal types.

Varieties change ultimately to species, and species perhaps to genera. Hence the large numbers of endemic plants on the islands.

The family of gymnosperms (pine, cypress, cedar, etc.) is not represented in Hawaii; this is accounted for on the ground that the islands were formed subsequent to the geological age in which the gymnosperms were universally distributed.

A striking peculiarity of Hawaiian trees is their lack of height. Only the cocoanut exceeds one hundred feet. Another peculiarity of the Hawaiian flora is that nearly all native plants are perennial and woody.

George Morrison

Dear HORTICULTURE:

You have made good! I want some more! Send another year! "Stuff" enclosed. H.

THE POSTAL PROGRESS LEAGUE.

To the Readers of HORTICULTURE: Friends:—The Postal Progress League asks your aid in securing the enactments of two pieces of legislation by Congress this winter:—(1) The consolidation of the 3rd and 4th class mail matter at the 3rd class rate, i.e. per each 2 oz., as long recommended by the Post-Office Department. This will reduce the rate on merchandise fifty per cent.

(2) The establishment of a rural parcels post that will enable the farmer to transport his produce to the general transport business on the rural route and so save the rural public the trouble and expense of hitching up their teams when they have occasion to do an errand.

This will save to the Government at least \$15,000,000 a year and will, we believe, add fully \$100,000,000 a year to the wealth of the 4,000,000 families on our rural routes. Our proposition is for the enactment of a bill carrying parcels from a half pound to 200 pounds at rates, 1c. for an 8 oz. parcel, 2c. for a pound, 5c. on parcels over a pound to 11 lbs., 10c. on parcels over 11 lbs. to 30 lbs., 15c. on parcels over 30 to 60 lbs., 20c. on parcels over 60 to 100 lbs., 25c. on parcels over 100 to 200 lbs.

In short we propose that the public post-wagon shall do what the private farm-post wagon was accustomed to do in the olden time when the folk along the mail route were their own postmen.

Congressmen will want votes next fall. Let them know that their reelection next fall will depend on their votes in behalf of postal advancement this winter.

Sincerely yours,

JAMES L. COWLES, Sec.

PERSONAL.

Anton Schulteis of College Point, has been critically ill for the past two weeks, but is now convalescent.

F. Lautenschlager, representing Kroeschell Bros., in New York, has returned to his home in Chicago for the holidays.

Arthur L. Brandegee of Berlin, Conn., was married on Dec. 7 to Miss Grace Lord of Northampton. On their return from their trip they will make their home in Farmington.

John Coombs of Hartford, Conn., who for many years has been located in the Universalist building on Main street, has refused offers for his two years' lease from the Travelers Insurance Company, who have purchased the property. As a result the contemplated improvements must stop until Mr. Coombs' lease expires.

OBITUARY.

G. T. Crawford, a forestry expert, died in Boston on December 6, at the age of 76. He was the first to suggest forest preservation by cutting only large trees.

Ellen Weiss, widow of Thomas Weiss and mother of Eugene and Harry Weiss, florists at 8th street, Philadelphia, and Hatboro, Pa., passed away at her home on Pulaski avenue, Germantown, Phila., on the 11th inst., and was buried at Ivy Hill cemetery on Dec. 13th.

Charles Fremd, a noted nurseryman and florist, died at his home in Rye, N. Y., on Saturday, Dec. 9, at the age of 72 years. His death was the result of injuries received two years ago, when he stopped a runaway horse and saved a man's life, but had his own legs crushed.

Mr. Fremd was born in Bielinger, Wurttemberg, Germany. He came to America in 1856. He started the Rye Nurseries in 1872. He was an enthusiastic tree-lover. His business was not so much noted for its magnitude as for its wealth of rare and fine specimens. He was exceedingly well-read on his favorite subject, and was a staunch friend of all who showed a fondness for garden topics. He was essentially a home man, and the craft always received a hospitable welcome at his hands. He leaves one daughter and two sons. The latter have been associated with him in the management and will continue the business.

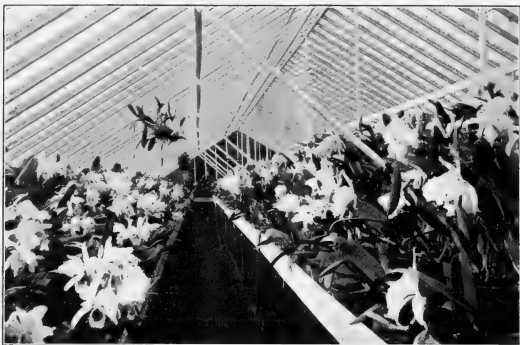
NEW FUEL FROM PETROLEUM.

From United States Consul General Gifford, Basel, Switzerland.

In the course of experiments with a view to the manufacture of soap from petroleum the Actiengesellschaft vormals S. Borlin & Co., of Binningen, near Basel, Switzerland, has discovered a new combustible which seems to possess quite extraordinary qualities. The substance, composed of four parts of petroleum and one part of a material the nature of which is not disclosed, is formed into briquettes weighing somewhat more than a pound. The ratio of petroleum to the secret material can be made six to one, but in this case there is a diminution of the resistance to pressure which makes it possible to keep the briquettes, as at present manufactured, in heaps at least 50 feet high.

About a pint of petroleum is used in making one of these briquettes. Assuming the price of oil to be 20 cen-

HOUSE OF CATTLEYA LABIATA AT WHEELER & CO.'S, WABAN, MASS.



times a liter (3.86 cents a quart), the price of one of the briquettes described would be about 2 1-3 cents, when prepared by the inventors from material purchased in small quantities for their experiments. If manufactured on a large scale the briquettes would cost considerably less.

The following are the results of a series of trials of the new combustible which I witnessed:

1. Pressure—A briquette was placed under 220 pounds iron weights. (1) Breaking or crumbling, 0; (2) escape of liquid, 0; (3) explosion or spontaneous combustion, 0.

2. Friction—A briquette was reduced in an iron mortar to the consistency of salve. (1) Explosion or combustion, 0; (2) escape of liquid, 0; (3) subsequent combustion on being touched with a match, good.

3. Water bath—A fragment weighing 77 grams (2 1-2 ounces) was kept in a receptacle ten minutes over boiling water. (1) Explosion or combustion, 0; (2) loss of weight, 0; (3) combustion when lighted, good. The briquette burned normally when relighted, after having been extinguished with water.

4. Fire test—A fragment slightly larger than that just described was held eight minutes in an iron pan directly over a spirit flame. (1) Explosion or combustion, 0; (2) change of weight, one-eighth loss; (3) combustion on being lighted, good.

5. Boiler test—The coal under a boiler with a heating surface of 43 square meters (about 460 square feet), a pressure of 7 atmospheres and two fireboxes was lighted by means of four briquettes, two in each box. The boxes were perfectly clean and empty,

and the coal was introduced, in my presence, without admixture of cotton waste, wood or other material, and was ignited solely by contact with the briquettes.

The time required to ignite coal was fifteen minutes. The briquettes themselves burned forty-five minutes.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

CHRYSANthemUM NOVELTIES

ALSO

Carnations and Roses

List Ready Now.
Send for Copy.

CHARLES H. TOTTY
Madison, N. J.

You Need Not Go Outside

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HORTICULTURE

To find where to get the

Best Flowers, Bulbs, Seeds and
Supplies in the Country.

DREER'S PLANTS FOR FORCING



The Baby Rambler

Fine imported two-year old English-grown stock, \$3.50 per doz.; \$25.00 per 100. Also an extra fine lot of heavy plants in 3-inch pots \$2.00 per doz.; \$15.00 per 100.

Rose, Killarney

Strong two-year old budded plants, Irish grown, \$4.00 per doz.; \$30.00 per 100.

Azalea Mollis

For early and late forcing Azalea Mollis is rapidly gaining favor. Easily forced at a minimum cost for heat and labor, they are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, \$4.50 per dozen; \$35.00 per 100.

Deutzias for Forcing

Strong two-year old field grown plants, suitable for 6-inch pots:
Gracilis: \$.75 per doz.; \$6.00 per 100. Gracilis Rosea: \$1.00 per doz.; \$8.00 per 100.
Gracilis Lemoncel: \$1.00 per doz.; \$8.00 per 100.

Forcing Lilacs

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, \$6.00 per dozen; \$45.00 per 100.

Rhododendrons for Forcing

These are being used more extensively every season, and this year with Easter as such a late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy well shaped plants, covered with buds, 20 to 24 inches high, \$1.00 each; \$11.00 per doz.; \$90.00 per 100.

Crimson Rambler Roses

A grand lot of two-year old extra heavy plants, the finest we have ever offered, just right for putting into 6 and 7 inch pots, either for Easter flowering or spring sales; a very select stock, \$2.00 per doz.; \$15.00 per 100.

The New White Rose, Frau Karl Druschki

This is really the first White Hybrid Perpetual Rose introduced, snow white in color of perfect form and remarkably free flowering. You will not make a mistake in including at least a trial lot with your Easter flowering stock, \$3.00 per doz.; \$25.00 per 100.

Pink and White Maman Cochet Roses

We have a fine lot of strong field-grown plants suitable for potting up into 5 and 6 in. pots, which will make fine stock for retailing in spring, \$1.25 per doz.; \$10.00 per 100.

For a Complete List of Seasonable Stock see our Current Wholesale List.

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA.

The Cottage Gardens

Contain the finest assortment of selected specimen Evergreen, Deciduous Trees and Shrubs procurable, and its Landscape Department is at your service in arranging them. Price list ready now. Has tables of the best herbaceous plants, giving common and botanical names, height, color and season of bloom. Sent free. All inquiries cheerfully answered.

COTTAGE GARDENS CO., QUEENS,

L. I.

FOREST TREE AND SHRUB SEEDS AND SEEDLINGS

Catalpa, Spermia, Black Locust, Nursery grown and collected seeds and seedlings

FOREST NURSERY AND SEED CO.

McMINNVILLE, TENN., R. F. D. 2

W. FROMOW & SONS - Bagshot, England

GOLDEN PRIVET, Spring 1906 delivery, for pots, window boxes, tubs and lawns, we offer at Bagshot, the hundred in sizes 12-15 inch, \$5, 15-18 inch, \$6.50, 18-24, \$9, 24-30 inch, \$12.50, 30-36 inch, \$16.50, and larger; also Standards. Foliage suits well for cut flower work. Trade list of ornamentals mailed to applicants by the American agents—

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31 Barclay Street, or P. O. Box 752

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INCORPORATED
BALTIMORE AND RICHMOND NURSERIES
WHOLESALE GROWERS OF

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NOW READY, \$3.00 to \$5.00 PER DOZEN

STOCK PLANTS

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WM. H. SIEBRECHT

ASTORIA, LONG ISLAND CITY, N. Y.

WALSH'S

"LADY GAY"

The sensational rose at the Temple and Regent's Park Shows, London, England, May 27 and June 1, 1905. Awarded Gold Medals.

Trade list of forcing varieties. Prices on application, order now.

"WEDDING BELLS" in pots, strong plants in open ground, extremely suitable for Easter sales.

"FRAU KARL DRUSCHKI," the new white rose, and "KILLARNEY." My stock of these is large and of first quality. Landed "ELRIC

BRUNNER" for tea roses.

Also long Hymal Perronnels and Hybrid Teas.

The new "Sole d'Or," a grand forcing rose. Try it. Also, Broomes and Plants.

M. H. WALSH

ROSE SPECIALIST WOODS HOLE, MASS.

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A Merry and Profitable Christmas

is assured to those who buy from

The Reliable House

Handling the product of many of the best growers in the country. Holiday flowers will be of unexcelled quality. It will include **Beauty, Richmond**, and all other roses, of desirable grades; **Carnations and Violets** as good as the best; **Poinsettias, Lilies, Roman Hyacinths, Paper Whites, Lily of the Valley**, and everything else an enterprising florist will need.

Write or telegraph at once and get Christmas quotations

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THE BEST SCARLET CARNATION—Being remarkably prolific

CYCLAMEN PLANTS

GIGANTEUM STRAIN

Seen taken of only selected flowers and well-built stock. None better.
3-in., \$7.00; 4 in., \$12.00; 5-in., \$65.00 per 100.
Seed of above strain, new crop, \$6.00 per 1000. Try it.

C. WINTERICH, Defiance, Ohio.

GLADIOLUS

AUGUSTA AND WHITE AND LIGHT.

Sizes in both varieties, 100 to 200, are as follows:

- I. Size 14 and up
- II. " 12 and 14
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We guarantee good soil and all

A. K. for 100. All prices are in advance.

ROWEHL & GRANZ, RICKSVILLE, L. I., N. Y.

Daisies, Daisies and Daisies

We are headquarters for **MARGUERITES**. We have 7 varieties and make it our specialty. Stock of 4 varieties is offered for sale and with a guarantee that it is entirely free from leaf mildew or other insect life. Prices on application. Flowers in full quantity October 1st to July 1st.

FLETCHER J. ALBINGALE,
Stall 1, Boston Flower Market, Park St.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

CARNATION MORSELS.

Watch **Cardinal**. It's making friends fast.

S. J. Reuter has been displaying a white seedling at Welch Bros. in Boston which promises well.

The Queen has gradually attained a proud position among the whites and finds congenial quarters in widely separated and diverse localities.

A carnation authority of high repute suggests that the brittleness of stem complained of in some varieties arises from an overuse of bone fertilizer.

Carnation **Flamingo** has improved greatly, and with several growers making a record that will place this variety in the desirable list for next year's growing.

A new variety that is liable to make its mark is **J. A. Valentine**. The flower is symmetrical and more lively in tint than **Enchantress**, **Candace** is an elegant pink and deserves to be better known.

PANSIES

Over one million plants ready from our Famous Strain. None better. \$1.50 per 500.
\$2.50 per 1000.
Daisies (Belbis) fine plants, \$2.00 per 1000.
Forget-me-not, Hardy blue, \$3.00 per 100.
Geraniums out of 2 1/2 inch pots, best varieties, \$1.50 per 100. 50,000 ready now.

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NEW ROCHELLE, N. Y.

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CALIFORNIA PRIVET.

A large stock of two and three year old (transplanted), from 12 inches to four feet well finished plants at very low prices for quality of stock. Get my prices before purchasing. Satisfaction guaranteed. Address,

CHARLES BLACK,
HIGHTSTOWN, - - N. J.

PLACE YOUR ORDER EARLY FOR THE

Best Scarlet Carnation

ROBERT CRAIG

Won first honors at exhibitions in New York, Boston, Philadelphia, Chicago, Kansas City, St. Louis, Milwaukee, Tarrytown and New Haven.

Bright Scarlet, Very Free, Large Bloom on Long Stem

Just the thing you need for Christmas. Sells at a higher price than any other scarlet. Prospective buyers should see it growing at

THE COTTAGE GARDENS
Queens, L. I., N. Y.

CHRISTMAS

Novelties and Supplies

Christmas Immortelle Bells, our own make, and an unusual cut in prices. A comparison with that of other dealers will convince of the large value offered.

No. 1 Size 5 1-2 inch, \$3.00 per doz. No. 2 Size 7 inch, \$6.00 per doz.

Chenille Bells, in No. 2 size only at the same price.

Folding Bells, popular Bee-hive style, 5 1-2 inch actual diameter measure, per doz. 40 cents; per 100 \$3.00. 8 inch, 75 cents per doz; \$6.00 per 100. 12 inch, \$1.25 per doz., \$10 per 100.

Holly, the very best, well berried, per single case, \$5.00—5 case lots or up at \$4.50—10 case lots or up at \$4.00. Holly Wreaths, single, \$10.00 per 100—double, \$15.00. Ground Pine Keping, \$5.00 per 100—\$45.00 per 1000. Laurel Keping, \$5.00 per 100—\$45.00 per 1000. Wire Rings for making holly and ground pine wreaths in sizes 10 inch, 11 inch, 12 inch—75 cents per 100, \$6.50 per 1000. Wild Smilax, large case, \$6.00, small case, \$3.00. Colored Capes, per pound, \$1.50, White Capes, per pound, \$1.00. Green Grasses per pound, \$1.00 to \$2.00

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Western Headquarters for Choice Orchids

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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Dec. 13		ST. LOUIS Dec. 12		PHILA. Dec. 13		BOSTON Dec. 13	
ROSES								
Am. Beauty and Edgely Fan, & Sp.	40.00	to 50.00	35.00	to 40.00	30.00	to 40.00	20.00	to 40.00
" Extra.....	30.00	to 40.00	25.00	to 30.00	15.00	to 20.00	12.00	to 20.00
" No. 1.....	15.00	to 25.00	10.00	to 20.00	10.00	to 12.00	6.00	to 8.00
" Lower grades.....	6.00	to 8.00	5.00	to 8.00	6.00	to 8.00	4.00	to 6.00
Bride & Maid—Fan, & Sp.....	8.00	to 10.00	5.00	to 6.00	8.00	to 10.00	6.00	to 8.00
" Extra.....	6.00	to 8.00	3.00	to 4.00	6.00	to 8.00	4.00	to 6.00
" No. 1 and Lower gr.....	2.00	to 4.00	2.00	to 3.00	1.00	to 5.00	1.00	to 2.00
Liberty, Richmond Fancy.....	15.00	to 18.00	5.00	to 6.00	10.00	to 15.00	6.00	to 10.00
" Ordinary.....	8.00	to 10.00	3.00	to 4.00	4.00	to 6.00	1.00	to 4.00
Carnot and Kaseira Fancy.....	8.00	to 15.00	2.00	to 3.00	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	4.00	to 6.00	2.00	to 3.00	3.00	to 6.00	1.00	to 2.00
Golden Gate, Chateaux, Fancy.....	5.00	to 12.00	5.00	to 6.00	6.00	to 8.00	4.00	to 6.00
" Ordinary.....	2.00	to 4.00	3.00	to 4.00	3.00	to 4.00	1.00	to 2.00
CARNATIONS								
Fancy Class.....	5.00	to 6.00	4.00	to 5.00	4.00	to 6.00	3.00	to 4.00
General Class and Lower grades.....	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00	2.00	to 3.00
MISCELLANEOUS								
Cattleyas.....	50.00	to 75.00	.....	to 50.00	.....	to 10.00	.....	to 50.00
La v. of the Valley.....	2.00	to 4.00	1.00	to 4.00	2.00	to 4.00	3.00	to 5.00
Chrysanthemums.....	2.00	to 4.00	8.00	to 20.00	6.00	to 15.00	4.00	to 12.50
Violets.....	50.00	to 75.00	.....	to 75.00	1.00	to 1.50	1.50	to 2.00
Adiantum Cune-stum.....	.....	to 75.00	1.00	to 1.50	.....	to 1.00	1.00	to 1.00
" Crowneum.....	.....	to 1.00	.....	to 1.00	.....	to 1.50	1.50	to 1.50
Smilax.....	12.50	to 15.00	12.50	to 15.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumosus, strings.....	15.00	to 50.00	25.00	to 50.00	40.00	to 50.00	15.00	to 50.00
" & Sprenger, bunches.....	25.00	to 35.00	25.00	to 35.00	40.00	to 50.00	20.00	to 50.00
Poinsettias.....	to 10.00	to 10.00	to 10.00	25.00	to 40.00
Romans, Paper Whites.....	to 10.00	to 10.00	to 1.50	1.50	to 2.00

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Roses and Carnations WHOLESALE CUT FLOWERS
A Specialty..... GROWER of

MUMS, BEAUTIES, VALLEY

Wholesale Florists
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VICTORY

THE BEST SCARLET CARNATION—Is a Fancy in the fullest sense of the word

Flower Market Reports.

BOSTON Cut flower activity is at a rather low ebb this week, and a plentiful supply of roses, carnations, violets, etc., is in evidence, violets showing a disposition to lag. The wholesale florists are all more or less in the holly and green business, and at present are giving their time necessarily to the shipping of this material. Ground pine wreathing has taken a new spurt this year and appears to have distanced the laurel wreathing, which in recent years has held the lead. Good holly is selling well, but delays in rail freight are causing much annoyance. As a rule the boat freights are doing much better than the railroads.

CHICAGO The reaction has set in in earnest, and city trade is poor, the demand being exceedingly light; if it were not for the increase in shipping, the best word to describe conditions would be "dead." The supply is considered fair on the lower grades and short-stemmed stock. Fancy stock is scarce, and what little there is going on in the line of sales gives fancy goods the preference, with the result that prices rule fairly high. Brides and Bridesmaids may be had of good quality and at reasonable figures. Liberty of the better quality is scarce; carnations are also scarce. Narcissi and Roman hyacinths are becoming more plentiful. Violets are making good showing, chiefly single varieties, with a good demand. Chrysanthemums are drawing their last breath, and very few may be had, the demand also being light. Christmas greens are coming in slowly, and it is predicted that there will be a shortage. Boxwood seems to be the favorite wreath material. Good holly is scarce, while the supply of lycopodium and long needled pines is good. A shortage on good Christmas trees is also expected, and consequently prices are high. All supplies are moving rapidly. The supply houses are kept busy, Christmas bells being in the lead.

CINCINNATI Business during the past week has been very satisfactory, good stock selling out clean every day. While there has been nothing big going on, a steady demand has kept up. Choice chrysanthemums are about done for, although a few good blooms can be seen here and there. Poinsettias are beginning to arrive and find a ready sale. Violets are uncertain, very few being grown in this section, and the shipped ones fail to give satisfaction to the buyer who knows what good violets are. Growers of roses and carnations report that the out-

look for the holidays was never better than at present.

There is the usual cry of a shortage of holly and club moss, but this doesn't worry the storemen, for as a rule they don't care whether they handle Christmas greens or not.

INDIANAPOLIS Beginning with Thanksgiving week business has been in better condition. There has been a good supply of nearly all kinds of flowers of excellent quality. Top-notch prices are the rule and good returns are realized. Paper white narcissuses, Romans, lilies of the valley and poinsettias are to be had in good quantity, while violets still remain the scarcest articles in the market. Trade in plants is brightening up, and from now on will play a prominent part. There is every indication of a good Christmas trade with an increased sale of flowering plants.

LOUISVILLE Business conditions last week were very favorable, the quality of stock being very good. Carnations of good quality are heavily demanded, the quantity being ample. The demand for roses has been good. The supply is lacking, but the quality is very satisfactory. Lilies of the valley, violets, mignonettes, etc., are on display and find a satisfactory demand.

MINNEAPOLIS As a result of the heavy business on Thanksgiving, roses, carnations and violets are scarce. Chrysanthemums are beginning to disappear, but poinsettias, narcissuses and hyacinths are taking their place and will soon be as popular as the chrysanthemums. Green is plentiful and good. Everybody is getting ready for a good Christmas trade. Display windows show all kinds of new and unique arrangements, setting off to good advantage the choicest flowers and the latest novelties in the market. The new rose, Miss Kate Moulton, seems to attract considerable attention, beside being a good seller.

NEW YORK Salubrious weather and the usual frugality prevailing during the two weeks preceding Christmas have combined to create a condition of stagnation in the flower business, the one increasing the crop and the other cutting down the demand. Prices are on the downward track in consequence, and it is largely a question of weather as to how far the drop will extend. Paper white narcissi, Roman hyacinths and poinsettias have been added to the general stock of daily receipts. All green material is in overstock, and growers are hereby warned not to cut too extravagantly on this class of goods until a reasonable chance of sale seems assured.

PHILADELPHIA The first week of December being the wind-up of the debutante season, is generally a good one, and this year was no exception. Trade was brisk and satisfactory. There seemed to be enough stock to meet all demands, although prices stiffened up a trifle. Liberties were the leaders among the roses. Beauties came along in good shape and moved off fairly well. Teas improved a little as to quality. Fine Killarneys were in good demand. Carnations in fair supply, quality and price good. Enchantress still the leader. Some very choice "My Maryland" are now arriving. Violets draggy. Valley in good demand and of fine quality. Cattleyas and cypripediums plentiful and good. Cut poinsettias are a strong feature of the present market. Some very fine stock coming in magnificent heads. They are largely used in table decorations, especially for low effects in mossed plaques; besides being a brilliant and useful subject in many other ways.

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Bronze and green Galax, 60c per 1000
Fancy and Lager Ferns, \$1.00 " "
Green Leucothoe Sprays, 3.00 " "
Bronze Leucothoe Sprays, 5.00 " "
Rhododendron Sprays, 3.00 " "
No. 1 stock, fresh from the patch, 13
cans' experience. Watch for new bulb
dealers. Kindly remit with first order.
J. N. PRITCHARD — Elk Park, N. C.

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NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 9 1905		First Half of Week beginning Dec. 11 1905			Last Half of Week ending Dec. 9 1905		First Half of Week beginning Dec. 11 1905	
Roses					Carnations				
Am. Beauty, fan and sp.....	10.00	to 50.00	10.00	to 50.00	Fancy Class.....	3.00	to 6.00	4.00	to 6.00
" extra.....	20.00	to 25.00	20.00	to 25.00	General Class and Lower grades...	1.50	to 3.00	2.00	to 3.00
" No. 1.....	12.00	to 20.00	15.00	to 20.00	Cattleyas	50.00	to 75.00	60.00	to 100.00
" Lower grades.....	3.00	to 6.00	1.00	to 3.00	Lily of the Valley	2.50	to 3.00	2.00	to 4.00
Bride & "Maid, fan and sp.....	5.00	to 10.00	10.00	to 15.00	Chrysanthemums	5.00	to 25.00	5.00	to 25.00
" extra.....	5.00	to 10.00	8.00	to 10.00	Oncidium	2.00	to 3.00	2.00	to 3.00
" No. 1 and lower grades.....	2.00	to 4.00	3.00	to 6.00	Lilies	6.00	to 8.00	10.00	to 15.00
Liberty, Richmond fan and sp.....	10.00	to 15.00	10.00	to 15.00	Violets.....	.50	to 1.00	.50	to 1.00
" Ordinary.....	3.00	to 6.00	3.00	to 6.00	Adiantum Cuneatum.....	.75	to 1.00	.75	to 1.00
Carnot and Kaiserin, fancy.....	6.00	to 10.00	6.00	to 10.00	" Croweatum.....	1.50	to 2.00	1.50	to 2.00
" Ord.....	2.00	to 4.00	2.00	to 4.00	Smilax	3.00	to 10.00	1.00	to 20.00
Golden Gate, Chateaux, fancy.....	6.00	to 10.00	6.00	to 10.00	Asparagus Plumosus , string.....	20.00	to 35.00	20.00	to 35.00
" Ordinary.....	2.00	to 4.00	2.00	to 4.00	" & Sprenger, bunches.....	10.00	to 20.00	10.00	to 20.00
Romans, Paper Whites.....	1.50	to 2.00	1.50	to 2.00	Poinsettias	20.00	to 75.00	20.00	to 75.00
					Cypripedium	12.00	to 15.00		

JOHN YOUNG
Wholesale **FLORIST**

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

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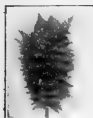
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Carnations

And all kinds of Seasonable Flowers

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We can please you

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Tel. 3393 Madison Sq.

WHOLESALE FLOWER MARKETS. TRADE PRICES — Per 100 — TO DEALERS ONLY

	CINCINNATI		DETROIT		BUFFALO		PITTSBURG	
	Dec. 12		Dec. 5		Dec. 12		Dec. 11	
ROSES								
Am. Beauty, fan. and sp.	10.00	to 40.00	.....	to 40.00	10.00	to 50.00	10.00	to 40.00
" extra.....	10.00	to 40.00	.....	to 40.00	10.00	to 50.00	10.00	to 40.00
" No. 1.....	20.00	to 25.00	.....	to 25.00	15.00	to 20.00	10.00	to 15.00
" Lower grades.....	10.00	to 15.00	8.00	to 10.00	3.00	to 15.00	3.00	to 6.00
Bride and Maid, fan. and sp.	10.00	to 8.00	.....	to 18.00	8.00	to 10.00	12.00	to 10.00
" extra.....	5.00	to 6.00	.....	to 10.00	6.00	to 8.00	10.00	to 10.00
" No. 1 and Lower gr	3.00	to 4.00	1.00	to 10.00	5.00	to 6.00	4.00	to 8.00
Liberty, fan. and sp.	10.00	to 8.00	.....	to 8.00	8.00	to 12.00	10.00	to 12.00
" Ordinary.....	4.00	to 6.00	4.00	to 10.00	4.00	to 8.00	6.00	to 8.00
Carnot and Kaiserin, Fancy.....	5.00	to 6.00	.....	to 18.00	8.00	to 10.00	6.00	to 8.00
" Ordinary.....	3.00	to 4.00	4.00	to 10.00	4.00	to 6.00	4.00	to 5.00
Golden Gate, Chatsenay, Fancy.....	10.00	to 8.00	.....	to 10.00	6.00	to 8.00	5.00	to 10.00
" Ordinary.....	4.00	to 6.00	4.00	to 10.00	4.00	to 6.00	4.00	to 6.00
CARNATIONS								
Fancy Class.....	3.00	to 4.00	.....	to 4.00	3.00	to 5.00	3.00	to 5.00
General Class.....	1.50	to 2.00	2.00	to 3.00	2.00	to 3.00	1.50	to 2.00
MISCELLANEOUS								
Cutlerys.....	.....	to 50.00	.....	to 50.00	40.00	to 60.00	.....	to 10.00
City of the Valley.....	3.00	to 4.00	3.00	to 4.00	3.00	to 4.00	2.00	to 4.00
Lilies.....	1.00	to 1.50	.75	to 1.00	1.00	to 2.00	.75	to 1.50
Chrysanthemums.....	5.00	to 20.00	5.00	to 15.00	.....	to 10.00	6.00	to 25.00
Adiantum Cuneatum.....	1.00	to 1.50	1.00	to 2.00	.50	to 1.00	.....	to 75
" Croweatum.....	.....	to 1.00	.....	to 1.00	1.25	to 1.50	1.00	to 1.50
Smilax.....	12.50	to 15.00	.....	to 15.00	12.00	to 15.00	12.50	to 15.00
Asparagus Plumosus, string.....	5.00	to 10.00	.....	to 10.00	40.00	to 50.00	20.00	to 40.00
" & Sprenger, bunches	25.00	to 35.00	.....	to 25.00	25.00	to 50.00	.....	to 20.00
Poinsettias.....	.....	to 50.00	.....	to 50.00	.....	to 20.00	.....	to 50.00

SPLENDID HOLLY

THE CELEBRATED XXX BRAND

**Holly and Evergreen Wreaths, Boxwood Sprays,
Laurel Wreathing and other Christmas Greens**

All selected especially for the New England trade.

Ready to quote favorable prices.

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On all orders for Holiday supplies. Don't wait until the last minute. Order now and have the goods by you in ample time.

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1214 F ST., WASHINGTON, D. C.

CHRISTMAS HOLLY

Best Well-Berried, Dark Green Foliage, - \$5.00 per case

Laurel Festooning, good and full, 5c. and 6c. per yard. Laurel Wreaths, extra heavy, \$2.00 per doz. upwards. Special Southern Smilax, \$3.50 and \$7.00 per case. Pine Trimming, all round, 5c. per yard. Pine Wreaths, \$1.50 and \$2.00 per doz. Hardy Cut Dagger and Fancy Ferns, \$1.00 per 1000. New Crop Bronze and Green Galax, \$1.00 per 1000. Get Your Red Immortelles.



BOXWOOD SPRAYS, \$15.00 PER 100 LBS.

We are headquarters for all FLORISTS' SUPPLIES, such as Wire Designs, Cut Wire, all kinds of Letters, Immortelles, Cycas Leaves, Sheaves of Wheat, Ribbons, Corrugated Boxes of all kinds, etc.

HENRY M. ROBINSON & CO. 8 and 11 Province St. BOSTON, MASS.

L. D. Telephone 7618



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A NEW DESIGN, MADE FROM RAINBOW SILK

Un'er Patents held by the Korral Manufacturing Company. Furnished in sizes of 5- and 9-inches, and made to order for special display up to 24 inches.

6 INCHES \$6 per Doz.

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Manufacturers of Script Letters, Emblems, Badges, etc. Send for sample circulars and discounts to the trade.



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THE PRETTIEST CHRISTMAS BELL FOR LEAST MONEY

Do you want the greatest novelty in Christmas wreathing, Green Statice.

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No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples
In writing advertisers, mention Horticulture

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Wholesale Dealer in

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New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.
Everything in Season.

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20 West 27th St., New York.

REED & KELLER

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Florists' Supplies

We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware Decorative Greens and Florists' Requisites.

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CROWL FERN CO., MILLINGTON, MASS.

FERNS No. 1 STOCK, only 75c per 1000

GALAX, Brilliant bronze or green 75c per 1000

Use our laurel festooning for your Decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily, gathered fresh from the woods. Hand made, full sizes, 4c, 5c and 6c per yard. Once used, pound or made into festooning when desired.

BUSINESS CHANGES.

A. L. Adams has opened a retail flower store at 8 Main St., Waterville, Me.

H. H. Ritter of Dayton, O., has opened a branch store in the Algonquin Hotel building of which F. N. Ritter, Jr. will have charge.

Harry Cole, for some time proprietor of the old Copeland & Cooper greenhouses, Campello, Mass., has sold the plant to Nichols Bros., a new firm.

Mrs. Ralph Plebany, formerly of East Norwalk, has assumed management of the plant of the Elm Grove Flower Co. at South Norwalk, Conn., and will add a retail branch to the wholesale business heretofore carried on by the company.

CINCINNATI PARKS.

Since the election there is quite a scramble for the position of superintendent of city parks. Several have filed their applications in due form and have important business to attend to down town very frequently. Our parks were never in better condition than they are now, and it is to be

hoped that politics will not have anything to do with the selection of a man for this office. The new board should not act with haste in this matter, appointing a little man because he has a big pull.

BOSTON FLORIST LETTER CO.

Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 1 1/2 or 2 inch size per 100, \$2.
Script Letters, 2. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street, BOSTON, MASS.

List of Advertisers

Allen Wm. Stuart Co. 665	McCarthy N. F. 666
Aschmann Godfrey. 666	McConnell Alex. 666
Baker Wm. J. 666	McKellar Charles W. 666
Bambrick, Thos. H. 666	McKissick, W. E. 666
Barrows H. H. & Son. 666	McMannus Jas. 666
Bayersdorfer H. & Co. 666	Michell H. F. 666
Beaven, E. A. 666	Michigan Cut Flower 666
Black, Chas. 666	Exchange 666
Blackstone Z. D. 666	Midland Charles. 666
Bons W. J. & Co. 666	Midland Frank. 666
Boudinot A. T. 666	Mitralized Kuller 666
Bonnet Bros. 666	Co. 666
Boston Florist Letter 666	M. Minger J. C. 666
Co. 666	Mr. Hosanik Numer. 666
Breck Joseph & Sons 666	tes. 666
Breitmeier J. J. 666	Murdoch J. B. 666
Budding J. A. 666	Murray Samuel. 666
Burnett Bros. 666	Niessen Leo. Co. 666
Burnham Hitches 666	Patten & Co. 666
Person Co. 666	Peacock L. R. 666
Burpee W. A. & Co. 666	Pennock Samuel 666
	Perkins John J. 666
	Phila. Cut Flower Co. 666
	Pittsburg Cut Flower 666
	Co. 666
	Prichard J. N. 666
	Rawson W. W. & Co. 666
	Raynor John L. 666
	Reed & Keller. 666
	Reid Edw. 666
	Reinberg Peter. 666
	Robinson H. M. & 666
	Rothers Julius 666
	Rolker August & Son. 666
	Rowell & Granz. 666
	Salford, Geo. 666
	Sander & Son. 666
	Schillo Lumber Co. 666
	Schmidt J. C. Co. 666
	Sealy John A. 666
	Seed Co. 666
	Sharp, Partridge & Co. 666
	Sheridan W. F. 666
	Siebrecht W. H. 666
	Sievers J. H. & Co. 666
	Siggers & Siggers. 666
	Situations & Wants. 666
	Skidelsky S. S. 666
	Stern J. & Co. 666
	Stearns A. T. Lumber 666
	Co. 666
	Stevens H. A. 666
	Sutherland Geo. A. 666
	Co. 666
	Suzuki & Iida. 666
	Thompson J. D. Co. 666
	Thornburn J. M. & Co. 666
	Thornton Bros. 666
	Totty, Chas. H. 666
	Tracy & Scher. 666
	Troy, J. H. 666
	Vaughan and Speery. 666
	W. T. 666
	Walsh M. H. 666
	Ward Kap M. Co. 666
	Watson G. C. Co. 666
	Weber, C. 666
	Weber F. C. 666
	Wehr H. 666
	Weich Bros. 666
	Weiland & Rish. 666
	Wheeler H. 666
	Wieter Bros. 666
	Winterich T. 666
	Winterich E. F. 666
	Woodfall Edward. 666
	Young John. 666
	Young & Neuman. 666
	Young Thos. Jr. 666

Buyer's Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line. Regular advertisers in this issue are also listed under this classification without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNTANT.

Robert J. Dysart, 23 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

ASPARAGUS PLUMOSUS.

E. G. Blaney, Swampscott, Mass.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
Bermuda Hyacinth Bulbs.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
French and Dutch Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. H. Square, Boston.
Arlington Tested Seeds for Florists.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Catalogue of Holland Bulbs and Roots.
J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.
Stump & Walter Co., 50 Barclay St., New York.
Russian Lily of the Valley.
For page see List of Advertisers.

CALIFORNIA PRIVET.
Chas. Black, Hightstown, N. J.
For page see List of Advertisers

CANADA HARDWOOD ASHES.
John Joynt, Lucknow, Ont., Can.

CARNATIONS.
John H. Slevers & Co., 1231 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

Robert C. Pye, Nyack, N. Y.
J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

Cottage Gardens, Queens, N. Y.
Carnation Robert Craig.
For page see List of Advertisers.
H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings Variegated Lawson.
For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y.
Carnation Victor.
For page see List of Advertisers.

C. H. Totty, Madison, N. J.
For page see List of Advertisers.
Patten & Co., Tewksbury, Mass.
Pink, Patten and Mikado Carnations.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
John E. Haines, My Maryland.
For page see List of Advertisers.

CARNATION SUPPORTS.
Igoe Bros., 220 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

Polly Rose, Wammanaker, Ivory, White Bonnafion, Perrin, Pacific, Enguehard, Balfour, Coomes, Holiday, Yellow Bonnafion, Chestnut Hill, Golden Chastwick, Ruman, \$1.00 per doz. \$6.00 per 100. Peirce Bros., Waltham, Mass.

C. H. Totty, Madison, N. J.
For page see List of Advertisers.
The H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

R. T. McGorum, Natick, Mass.

CHRISTMAS PLANTS.

W. S. Herzog, Morris Plains, N. J.
For page see List of Advertisers.

Hinode Florist Co., Whitestone, N. Y.
C. Azalaks, Wisterias, etc.
For page see List of Advertisers.

Thos. Roland, Nahant, Mass.

W. W. Edgar, Waverly, Mass.

COLD FRAME MATS.

Wm. Elliott & Sons, 201 Fulton St., New York.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. W. Cullen, Danvers, Mass.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

ELECTRIC CIRCUITATOR.

Holly-Castle Co., 49 Federal St., Boston.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
H. H. Barrows & Sons, Wiltman, Mass.
Nephrolepis Barrows.
For page see List of Advertisers.
S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersoni Elegantisima.
For page see List of Advertisers.
John Scott, Keap St., Brooklyn, N. Y.
Scott Fern.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.
The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Reed & Keller, 122 E. 25th St., New York.
For page see List of Advertisers.
J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.
J. Stern & Co., 1925 Germantown Ave., Philadelphia.
For page see List of Advertisers.

H. F. Michell & Co., Philadelphia, Pa.
Christmas Plants.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.

Alex. McConnell, New York.
For page see List of Advertisers.

If you offer the right goods in the right way in these columns, you will not lack for customers

FLOWERS BY TELEGRAPH.

(Continued.)

- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.
- Young & Nugent, New York.
For page see List of Advertisers.
- J. Breitmeyer's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.
- Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.
- George H. Cooke, Washington, D. C.
For page see List of Advertisers.
- A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.
- Z. D. Blackstone, 14th and H Sts., Washington, D. C.
For page see List of Advertisers.
- Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.
- Central Floral Co., 105 Wabash Ave., Chicago, Ill.
For page see List of Advertisers.

FLOWER POTS.

- W. H. Ernest, 28th and M Sts., Washington, D. C.
For page see List of Advertisers.
- A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

- Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.
- Wm. J. Boas & Co., Philadelphia, Pa.
For page see List of Advertisers.

GLADIOLUS.

- Rowehl & Grauz, Hicksville, L. I., N. Y.
For page see List of Advertisers.

GLASS.

- Sharp, Partridge & Co., 22nd and Union Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

- H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

- Burnham Hitchings Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers.
- Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.
- Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.
- A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.
- King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.
- John C. Moninger Co., 111-125 Blackhawk St., Chicago.
For page see List of Advertisers.
- Adam Schillo Lumber Co., West St. and Hawthorne Ave., Chicago.
For page see List of Advertisers.
- Foley Mfg Co., 471 W. 22nd St., Chicago.

GREENHOUSE HOSE

- Mineralized Rubber Co., New York.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

- H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.
- The Kervan Co., 20 W. 27th St., New York.
For page see List of Advertisers.
- Michigan Cut Flower Co., 38 and 40 Miami Ave., Detroit, Mich., Wm. Dilger, Mgr.
For page see List of Advertisers.
- Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

HEATING APPARATUS.

- Burnham Hitchings Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers.
- John A. Scollay, 73 and 75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.
- Gurney Heater Mfg. Co., 74 Franklin St., Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

- August Kolker & Sons, 31 Barclay St., New York.
Plants tender or hardy.
For page see List of Advertisers.
- R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

- Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

- Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

- Cochran Mushroom & Spawn Co., 911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICOTIANA SANDERAE.

- Sander & Sons, St. Albans, Eng.

NURSERY STOCK.

- Mt. Hissarlik Nurseries, New Rochelle, N. Y.
For page see List of Advertisers.
- Franklin Davis Nursery Co., Baltimore, Md.
For page see List of Advertisers.

ORCHID PLANTS.

- Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.
- Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.
- Wheeler & Co., 1250 Beacon St., Waban, Mass.
For page see List of Advertisers.
- Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.

PAEONIES.

- Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

- Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

- A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

- J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Nots, Geraniums.
For page see List of Advertisers.
- H. M. Totman, Randolph, Vt.
Snap Dragon, Sweet Peas, Geraniums.

PLANTS DECORATIVE.

- A. Leuthy & Co., Roslindale, Mass.
For page see List of Advertisers.
- Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

PLANTS FORCING.

- H. F. Mitchell Co., Philadelphia, Pa.
For page see List of Advertisers.
- H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

PLANTS, HARDY.

- H. A. Stevens Co., Dedham, Mass.
Peonies and Phlox.
For page see List of Advertisers.

PLANT POTS AND PEDESTALS.

- Jones, McDuffee & Stratton Co., Boston.
For page see List of Advertisers.

PUBLICATIONS.

- The Chrysanthemum, Horticulture Publishing Co., Boston.
For page see List of Advertisers.
- The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RECEIVER'S SALE.

- L. K. Peacock, Inc., Atco, N. J.
For page see List of Advertisers.

RETAIL FLORISTS.

- Julius A. Zinn, 2 Beacon St., Boston, Mass.
Flowers by Telegraph.
- Alex. McConnell, New York.
For page see List of Advertisers.

RETAIL FLORISTS.—Continued.

- Thomas Young, Jr., New York.
For page see List of Advertisers.
- Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.
- J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.
- Young & Nugent, New York.
For page see List of Advertisers.
- Z. D. Blackstone, 14 and H Sts., Washington, D. C.
For page see List of Advertisers.
- Central Floral Co., 105 Wabash Ave., Chicago.
For page see List of Advertisers.
- George H. Cooke, Washington, D. C.
For page see List of Advertisers.
- Samuel Murray, 1017 Broadway, New York.
For page see List of Advertisers.
- A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

ROSES.

- M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Rambles.
- E. H. Hunt, 76 Wabash Ave., Chicago.
Miss Kate Moulton.
- C. H. Totty, Madison, N. J.
For page see List of Advertisers.

August Kolker & Sons, 31 Barclay St., New York.

- English-Grown Roses.
For page see List of Advertisers.
- W. K. Nelson, Augusta, Ga.
Box.
- H. A. Dreer, Philadelphia, Pa.
Baby Rambles.
For page see List of Advertisers.
- Thos. Meehan & Sons, Dreshertown, Pa.
Manetti Rose Stock.
- Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.
- Waban Rose Conservatories, Natick, Mass.
Rose Wellesley.
- California Rose Co., Los Angeles, Cal.

SEEDS.

- W. W. Rawson & Co., 12 and 13 Faneuil Hall St., Boston.
Cyclamen Seed.
For page see List of Advertisers.
- Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.
- Joseph Breck & Sons, 51 and 52 N. Market St., Boston.
For page see List of Advertisers.
- W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.
- Barnett Bros., 101 West St., New York.
Seeds, Bulbs, and Fertilizers.
For page see List of Advertisers.
- J. M. Thorburn & Co., 30 Cortlandt St., New York.
For page see List of Advertisers.
- Forest Nursery & Seed Co., McMinnville, Tenn.
Forest Tree and Shrub Seeds.
For page see List of Advertisers.
- H. F. Mitchell Co., 1018 Market St., Philadelphia, Pa.
For page see List of Advertisers.
- Conrad Appel, Darmstadt, Germany, Ex. 179a.
High Grade Grass, Clover, and Tree Seeds.
- SOUTHERN WILD SMILAX.
- H. M. Robinson & Co., 8 and 11 Province St., Boston.
For page see List of Advertisers.
- E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.
- STEAM TRAP.
- E. Hppard, Youngstown, O.
For page see List of Advertisers.
- VENTILATING APPARATUS.
- Burnham Hitchings Pierson Co., 1133 Broadway, New York.
For page see List of Advertisers.
- Foley Mfg Co., 471 W. 22nd St., Chicago.
- John A. Scollay, 73-75 Myrtle Ave., Brooklyn, N. Y.
For page see List of Advertisers.
- The Chicago Lifter.
- J. C. Moninger Co., 321 Hawthorne Ave., Chicago.

VERBENAS.

J. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.
N. F. McCarthy & Co., 84 Hawley St., Boston.
George A. Sutherland Co., 34 Hawley St., Boston.
Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.
Wm. F. Kasting, 383-87 Ellcott St., Buffalo, N. Y.

Chicago.

For page see List of Advertisers.
J. A. Budong, 37 Randolph St., Chicago.
E. H. Hunt, 76-78 Wabash Ave., Chicago.
Chas. W. McKellar, 51 Wabash Ave., Chicago.
Peter Reinberg, 51 Wabash Ave., Chicago.
L. E. Randall Co., 21 Randolph St., Chicago.
Welland & Risch, 59 Wabash Ave., Chicago.
Weller Bros., 51 Wabash Ave., Chicago.
Vaughan & Sperry, 60 Wabash Ave., Chicago.
S. F. Winterson Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40 Miami Av. Wm. Dilger, mgr.

New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 West 26th St., New York.
Ford Bros., 43 West 28th St., New York.
H. E. Froment, 57 W. 28th St., New York.
Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.
Philip F. Kessler, 55 W. 26th St., New York.
Julius Lang, 53 West 30th St., New York.
A. H. Langjahr, 55 W. 28th St., New York.
James McManus, 50 W. 30th St., New York.
Chas. Milling, 50 West 26th St., New York.
Frank Milling, 55-57 W. 26th St., New York.
John J. Perkins, 115 W. 30th St., New York.
John L. Raynor, 49 W. 28th St., New York.
George Saltford, 46 W. 29th St., New York.
W. F. Sheridan, 39 W. 28th St., New York.
Traendly & Schenck, 44 W. 28th St., New York.
John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
Leo Nielsen Co., 1217 Arch St., Philadelphia, Pa.
S. S. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504 Liberty St., Pittsburg, Pa.
J. B. Murdoch & Co., 645 Liberty St., Pittsburg.

New Offers in This Issue.

CHRYSAETHUMS. GERANIUMS.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

FLORISTS' ICE BOX.

W. T. Carr, HORTICULTURE
For page see List of Advertisers.

GALAX.

J. N. Pritchard, Elk Park, N. C.
For page see List of Advertisers.

POINSETTIAS.

W. H. Schenck, Astoria, Long Island City, N. Y.
For page see List of Advertisers.

POINSETTIAS.

S. S. Pennock, Philadelphia
For page see List of Advertisers.

PRIMUM OBSCURUM.

W. S. Herzog, Morris Plains, N. J.
For page see List of Advertisers.

SPIRAEA GLADSTONE, JAPONICA, LILY OF THE VALLEY.

R. & J. Farquhar & Co., Boston.
For page see List of Advertisers.

WHOLESALE FLORIST.

J. S. Fenrich, New York.
For page see List of Advertisers.

GREENHOUSES BUILDING AND PROJECTED.

Winslow, Me.—John Pooler, one house.
St. Louis, Mo.—A. Waldmann, two houses, 16x100 each.

NEW PUBLICATIONS.

The Burnham Hightings Pierson Co. have issued an elegant little volume, giving instructive information about cold frames, mats, shutters, etc., which every grower should possess. It can be had for the asking. Send to 1133 Broadway, New York, and give credit to HORTICULTURE for this notice.

LIST OF PATENTS.

Issued November 21, 1905.

804,974. Fruit Harvester. Martin L. Porter, Redding, Cal., assignor to James Monroe Graham, Zachariah Fletcher Wharton and Benj. Franklin Howard, Sacramento, Cal.
805,023. Garden-Hose Support. Joseph McBoyle, Oakland, Cal.
805,191. Trimming and Weeding implement. William C. Flanagan, Lisbon, Ohio.

Issued November 28, 1905.

805,491. Flower-Pot. Rudolph A. Sedlacek, Glencoe, Ill.
805,689. Poison Distributor for Plants. Noble W. Ward, Pleasant S. Ward and Lee Ward, Yancey, Texas.

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TO
Green-House Men

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See the Point **67**
PEERLESS
Glazing Points are the best. No rights or lefts. Box of 1,000 points 10-cents, postpaid.
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 KIND OF EVERY WARE FLORIST

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 For Greenhouse Benches
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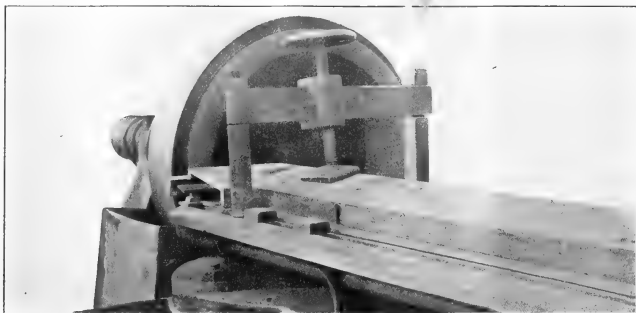
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 Certificate of merit awarded at Washington, D. C.,
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 The Standard Ventilating Machine still
 leads as the most durable, easiest working and the
 all-around satisfactory machine.
 The Duplex Gutter is gaining all the time, over
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 MADE OF ZINC
 REPAIR CRACKED GLASS IMMEDIATELY AND PERMANENTLY
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It's just this exactness and careful attention to each little detail that makes the perfect greenhouse. Perfect greenhouses mean perfect plants.

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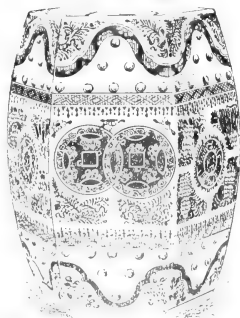
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Plant Pots and Pedestals

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They include all sizes and shapes up to the large and very large, from the lowest price up to \$150 each.

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HORTICULTURE

Vol. II.

DECEMBER 23, 1905

No. 26



CARNATION VICTORY.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER,
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
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Subscription, \$1.00*

VICTORY

THE BEST SCARLET CARNATION—Requires only ordinary culture

TWO TRUMPS PINK PATTEN THE MIKADO

Brighter than Lawson Strictly Fancy
First Class Certificate at Boston and Tarrytown First Class Certificate American Carnation Society at Chicago

PRICES

Per 100, \$10.00; per 1000, \$80.00; 250 at 1000 rate.

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The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers, wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings, broken now and filled in rotation beginning January 1, 1906, at

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1712-1618 Ludlow St.

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7-10 " 7.00 " " 50.00 " "

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Now Ready. Commenced shipping Dec. 1st. Orders filled in rotation.

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We must have room. Note our prices. Large, strong roots. 75c. per doz. \$4.00 per 100. \$1.00 per doz. \$3.00 per 100. 20c. each.

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Carnations and Roses

ALSO

List Ready Now.
Send for Copy.

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"LADY GAY"

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Plans for forcing in pots. Prices on application, order now.

"WEDDING BELLS" in pots, strong plants from open ground, extra fine, suitable for Easter sales. "FRAU KARL DRUSCHKI," the new white rose, and "KILLARNEY." My stock of these is large and of best quality. Excellent "ULRICH BUNNEK" for forcing.

All the leading Hybrid Perpetuals and Hybrid Teas. The new "Sole d'Or," a grand forcing rose. Try it. Also Facinies and Philas.

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The most complete and comprehensive work on the cultivation of the chrysanthemum that has yet been published in America. Its scope and character may be gleaned from the list of contents, which comprises chapters on culture for exhibition; composts; planting; benches, boxes or pots; general culture; details; growing and terminal buds; feeding; its object and application; care of the buds; exhibition and judging; specimen plants, chrysanthemum, plants in six inch pots; commercial culture, raising from seed and hybridizing; sports, hardy chrysanthemums; chrysanthemums for south and west; chrysanthemums in Australia; insect pests and diseases; classification and selection of varieties for special purposes; and history of the chrysanthemum. The book will be welcomed both by the professional and amateur growers of chrysanthemums, for the lucid, comprehensive as well as the practical character of its contents, which, if strictly followed, cannot fail to bring about the desired results, namely, the obtaining of large chrysanthemum flowers, the greenhouse, and a profusion of bloom in the garden. Handsomely illustrated. 166 pages, 5 x 7 inches. Price, 50c.

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English Scarlet Hawthorn, 3.50 30.00

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strong clumps..... 15.00

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Rhododendrons. The most profitable plants for

Easter. Handsome, well budded plants from \$6.00 to

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Yr. Trees, Standards and Pyramids. Any quantity

in all areas, ask for prices. We also have a good supply

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Killarney Roses

extra heavy

2-year old, field

grown, English

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doz., \$35.00 per

100

Roses, H. P., low budded, 2

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Baby Rambler, strong field grown stock

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Aucuba Japonica, very satisfactory for deco-

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to 3 ft. \$15.00 per 100

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Daisies (Golds) fine plants, \$2.00 per 1000.

Forget-me-not, Hardy blue, \$3.00 per 1000.

Geraniums out of 2 1/2 inch pots, best varieties, \$1.50 per 100, 50,000 ready now.

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Daisies, Daisies and Daisies

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GIGANTEUM STRAIN

Seen today of only selected flowers and well-built stock. None better.

3-in., \$7.00; 4 in., \$12.00; 5 in., \$65.00 per 100

Seed of above strain, new crop, \$3.00 per 1000. Try it.

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Consignments of choice cut flowers desired to supply our increasing business. Same will receive our careful attention and be sold at best prices obtainable, and account of sales and settlement made promptly.

We are desirous of rendering our business relations mutually advantageous and will conscientiously endeavor to please all with whom we deal, and to neglect nothing that may contribute toward giving entire satisfaction. Correspondence invited.

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It is never too early nor too late
to order the

Scott Fern

Best Commercial Introduction for many years

JOHN SCOTT

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NEPHROLEPIS BARROWSII. \$25 PER 100

SCOTTII, 2½ in., . . . 5 " "

BOSTONS, 2½ in., . . . 3 " "

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Also, *Araucarias*, *Rubbers*, *Pandanus*, *Aralias*,
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Largest Importers, Exporters, Growers
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Trianae, *Cattleya Gigas Sanderiana*, *Oncidium*
Fuscatum, *Oncidium Kramerianum* and *Burlingtonia fragrans*.

Lager & Hurrell, Growers and Importers... Summit, N. J.

JUST RECEIVED In fine condition.
Importations of

Cattleya Gigas

(Hardy Type)

Cattleya Mendelli

Inquire for Prices

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WHEELER & CO.

Orchid Growers and Importers

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(*Nephrolepis Elegantissima*)

The Best Selling Novelty Ever
Introduced. Sells on Sight.

THIS FERN WAS THE FEATURE AT THE KANSAS CITY SHOW

All the Bon Ton Florists are handling it and acknowledge that it is the most elegant and beautiful plant they have ever offered for a house decoration. Has all the elegance of the rarest Exotic and the hardiness of the Boston Fern.

Its value is emphasized by the fact that it still commands the same prices at which it was originally placed upon the market. Order early because although we have a large stock at present, the demand is likely to exceed it. The best selling sizes for retail are the 6 and 8-inch pans. Special—We offer a sample box of 6 of each of these sizes, 12 plants in all, value \$27.00, for \$24.00 net. Packed carefully and selected, and safe arrival guaranteed.

Prices Strong plants for immediate sale, 6-inch pans, \$1.50 each; 8-inch, \$3.00 each; extra strong plants, 3 12-inch, very fine, \$50.00 per 100; strong established stock in 2 14-inch pots for growing on, \$25.00 per 100.

You know all about the gold and silver medals and highest honors this Fern has won wherever exhibited.

In ordering please state whether to ship in pots or not and don't put off ordering until winter weather makes shipping risky.

F. R. PIERSON CO.

Tarrytown-on-Hudson, N. Y.

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HORTICULTURE

VOL II

DECEMBER 23, 1905

NO. 26

PUBLISHED WEEKLY BY

HORTICULTURE PUBLISHING CO.

11 Hamilton Place, Boston, Mass.

Telephone, Oxford 292

WM. J. STEWART, EDITOR AND MANAGER

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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPIECE—Carnation Victory		NEWS OF THE CLUBS AND SOCIETIES—(Continued)	
HORTICULTURE—W. R. Gilbert	679	Banquet for Carnation Society	684
DEATH OF HENRY ECKFORD—W. H. A.	679	Lenox Horticultural Society	685
DENDROBIUM PHALAENOPSIS SCHROEDERIANUM—Edgar Elvin	680	Society of American Florists	685
EVERGREENS FOR WINDOW BOXES—Warren J. Chandler	680	Club and Society Notes	685
ECHOES FROM ENGLAND—Harry H. Thomas	681	CUT FLOWER MARKET REPORTS	
EDITORIAL	682	Boston, Buffalo, Louisville, New York, Philadelphia, Toledo	689
CHRYSANTHEMUM NORMA—Illustrated	683	MISCELLANEOUS	
POETRY—"A Christmas Carmen"—John G. Whittier	683	Obituary	683
NEWS OF THE CLUBS AND SOCIETIES		Personal	683
Gardeners' and Florists' Club of Boston	684	Gypsy Moth Warfare	683
Massachusetts Horticultural Society	684	Pacific Coast Notes	686
American Association of Park Superintendents	684	Philadelphia Notes	687
Elberon Horticultural Society	684	A Baltimore Enterprise	687
Morris County Gardeners' and Florists Society	684	Nursery Rates Reduced	687
State Horticultural Society of Maryland	684	Wholesale Quotations on Christmas Plants	689
St. Louis Florists' Club	684	News Notes	689
		Fires	689
		Business Changes	694
		Seed Trade	694
		Greenhouses Building and Projected	694
		Catalogues Received	694
		List of Patents	694

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Horticulture

ITS FUNDAMENTAL PRINCIPLES.

Horticulture or gardening is a branch of agriculture of great interest and importance. It may be called intensive farming, because the same general principles of culture apply, whether the work is carried on on one or one hundred acres.

While extensive farming is the culture of cereals for the use of food for man, and grasses and legumes both for him and the lower animals, horticulture means more particularly the cultivation of such a variety of fruits, vegetables, shrubs, trees, and flowers, as are especially fit for human nourishment and enjoyment at all the productive seasons of the year, out of doors, and by artificial means at all seasons.

Herbs, plants and flowers, which form the delight of the horticulturist, are scattered over many regions of the earth, and their collection and arrangement in appropriate places are full of interest. Thus the clever gardener adopts and cultivates the succulent foods destined for his use, and finds pleasure in the necessary exertion of his mental and bodily faculties, while his toil is amply rewarded by luxuriant crops, delicious fruits, charming flowers, and stately trees.

Horticulture has the beneficial effect of improving the natural productions subjected to their influence. The flowers, the fruits, and the esculent vegetables all acquire under their care and treatment new and valuable qualities. The color of one, the perfume or symmetry of another, are improved; and of fruits, the size, the richness of flavor, or prolific habit are increased in value. The plant, which in its wild state is nothing but a worthless weed, is by the gardener's skill converted into a valuable herb, or beautiful flower, and the trees and shrubs of the forest are made ornaments to our lawns and parks. The botanist, the herbalist, the florist, and the pomologist, each finds exercise for his powers, and no wonder that his profession is raised to the dignity of a science, more especially since the advance that has been made of late years, and is still making in all progressive countries. It is obvious that the art of progressing must increase in importance with the progress of commerce, the advancement in education and the increase of population. A wider field is opened to all branches of horticulture by the increasing opulence of the people and the fostering of aesthetic tastes in all classes of the community.

If there is an occupation that requires enthusiasm, it is horticulture; no one can be accomplished in any art or profession unless he loves it, but the practice soon inspires the love necessary for proficiency.

The underlying bases of successful horticulture are first enthusiasm, second application, third punctuality in actions, fourth study and observation, fifth experimentation, sixth securing all means to increase a knowledge of the subject. Competition has its advantages, if carried on in a friendly spirit; the desire to excel is inherent in human nature, and there is a pardonable pride

in having produced a superior article. The gardener, who by his skill and industry has raised a new and much improved variety of fruit or flower, is as much entitled to honor and commendation as the inventor of some new and useful machine. There are a few fundamental rules of practice that the clever horticulturist will ever keep in view, viz.: that the soil is chiefly an anchorage for the plant, containing the chemical ingredients of which the plant food is composed, but that these are capable of exhaustion and must be replenished by manure, either natural or artificial, or by an interchange of crops; otherwise, fertility will be impaired and will ultimately cease.

That a certain amount of moisture is necessary to bring the fertilizing material into action; that plants derive part of their nourishment also from the atmosphere, by means of the leaves and roots, therefore, the former should be exposed to the light, air, and vapor, and not be allowed to overcrowd each other, but the branches be thinned by pruning, and the latter be aerated by frequent stirring of the soil. That weeds are robbers that must be promptly destroyed in their infancy, that fungus growths are the chief cause of disease, and must be arrested by the prompt use of fungicides; that insects are no less dangerous, and must be guarded against by the use of poisons suitable to their peculiarities in feeding; that early cropping is necessary in our short seasons; that change of seed is advisable; that none but the most reliable seedsmen should be dealt with; and the seed planted only when the soil is in good condition to receive it. Then, the growing crop duly and very carefully cultivated, and after all has been faithfully done, the result be patiently left in the hands of an over-ruling Providence.

H. R. Gilbert

Death of Henry Eckford

Mr. Henry Eckford, of Wem, Shropshire, who had gained the title of the "Grand Old Man of the Sweet Pea World," did not survive many weeks to enjoy the distinction conferred upon him by his ardent admirers in England and America. His long life of useful service to horticulture closed on Dec. 5th. The enthusiasm which he possessed for sweet peas has been inherited by his son, who is continuing the business on the lines which the founder of the firm inaugurated. In the remarkable advance made in the culture of sweet peas in this country, Mr. Eckford took no small part. The many novelties he introduced year by year added to the interest gardeners felt in this particular subject, and at the shows of the National Pea society his newest introductions were to be seen on most of the stands. Mr. Eckford's name will be perpetuated by a popular variety which is likely to be seen on the show tables. In the work of the National society Mr. Eckford took a very practical interest. This organization had its origin in the splendid exhibition held at the Crystal Palace to celebrate the bi-centenary of the introduction of the sweet pea into Europe. In the raising of culinary peas Mr. Eckford was equally successful, several sterling varieties having been sent out from Wem. British horticulture is the poorer for the loss of this venerable and distinguished member.

W. H. A. London.

Dendrobium Phalaenopsis Schroederianum

From its first introduction this useful dendrobium has grown in popular favor. The fact that it flowers in the dull days of winter makes it a very welcome addition to this section. Its lengthy, graceful sprays unlike most dendrobes, makes it extremely valuable for table or bouquet work. It may be cut, too, without severing the bulb, which is often the beginning of the end with other varieties. It also lasts well when cut and in quantity gives a great variety of shades ranging from pure white (rare) to the deepest purple and is a wonderfully free bloomer, old bulbs continuing to throw occasional sprays and good stout bulbs often produce from two to three from the apex of new growths.

It is not generally considered an easy plant to grow and certainly requires distinct individual treatment; a native of New Guinea it belongs to the East Indian group which includes bigibbum, Bensoniae, and superbis, all of which have established a reputation as being difficult to increase in size after a few years of artificial cultivation. But if its wants are carefully supplied it is really very amenable to treatment and easy to grow.

A few cultural hints will perhaps be helpful. With regard to imported plants a selection should be made even at a greater cost; medium sized plants which show a graduation of bulbs from the seedling stage upward are preferable to larger plants which not infrequently are old divided pieces, often with dead eyes at the base. There is not much promise in these except for a few aerial growths. Plants should be dipped in tobacco juice and water as a preventive against insect pests; of late, weevils which bore through the bulbs have caused much destruction. These must be carefully looked after and infected bulbs destroyed. Potting should be deferred until growth is started placing the plants on

stage or hung from the roof in a moist temperature of not less than 75 degrees, syringing slightly once a day.

The smallest possible receptacles should be used. Orchid pans are the most suitable; only one crock is necessary. Use a compost of fibrous peat, a little sifted leafmould with small quantity of chopped sphagnum moss with a little sand. They should not be mounted as they dry quick enough in small pans. They should be hung up about 2 ft. from the glass well out of drip, using copper wire to which bulbs may be secured. They delight in full sunlight and should never be shaded; where only a few are grown a croton house would be an ideal place, causing growth.

A moist hot temperature of not less than 80 degrees at night should be maintained in growing season. Water sparingly until growth and root action is well developed after which copious supplies may be given. When bulbs begin to swell a weekly dip in weak solution of cow dung will be most helpful.

Flowers spikes appear at the end of growing season. After flowering they should not be moved to such cold quarters as is the case with the Werdianum section but remain in a stove temperature of not less than 65 at night until growth starts again, watering only once weekly. These methods are the result of practical experiment for a number of years and if faithfully followed in the main with due regard to local conditions, this invaluable orchid will yield results which will be a source of satisfaction to grower and public alike.

Edgar Elvire

✓ Evergreens for Window Boxes

What a relief it is to the eye, at this season of the year, to see evergreens with their beautiful shadings of green, bronze and yellow, while all around the shrubs and trees are leafless and bare except for a few red berries here and there.

Many people are not aware that, even though their place is small or they live in the city, they can enjoy the pleasure of having these pretty plants as well as those who are favored with large properties.

All through the winter a decidedly pretty effect can be secured by planting small, formal evergreens in window boxes. Placed along the railing of the porch or outside the window they give an air of cheerfulness that one would hardly imagine could be secured with so little effort.

In attempting this work the first point to consider is the procuring of a box with sufficient depth to keep the plants from freezing and drying out too quickly. It is natural that they will suffer some, but where the box is 15 inches in depth the plants have good chances of coming through with little suffering and may often be used for permanent planting in the open ground.

In putting the plants in the box care should be exercised in arranging them to secure the best results. The tall, dark-green varieties are excellent for using in the background and in order to bring out the form and color of those that will be used in the foreground.

The arbor-vitae rank first as the best type for this use, as they can be secured in almost any shape and quite a few shades of colors. The varieties spiralis, occi-

dentalis and pyramidalis are the best for background work. Globosa and Hoveyi are well adapted for using as dwarf types in the foreground.

There are also some very pretty Chinese kinds that are worthy of mention. Biota orientalis and the golden forms of this species, elegantissima and nana aurea are very useful owing to their style of growth and excellent coloring.

Another class of evergreens that can hardly be dispensed with are the retinosporas or Japanese cedars. The plumosa aurea and squarrosa stand out as the two best, though obtusa compacta and nana aurea help to make a good assortment.

The junipers rank second to the arbor vitae for using in this manner. Juniperus hibernica or Irish juniper is very good for using with the tall forms of arbor vitae, while stricta and succica compacta serve well to use with the dwarf types.

Box plants are often used where a large assortment is wanted, though they can be omitted without destroying the effect.

It takes from ten to twelve to plant a box nine inches wide and forty-five inches long. This will serve as a guide in estimating the quantity needed for larger or smaller boxes.

Waring Chandler

Echoes from England

TREE OR WINTER FLOWERING CARNATIONS IN ENGLAND

The American carnations have come so much to the front in England that it is now proposed to hold an exhibition of these alone. Several of the gardening journals have heartily supported the scheme, and there seems a reasonable promise of success. There is no doubt that it would prove to be a very beautiful show, for no flower lends itself to decorative effect better than these long-stemmed, fringed, and richly colored flowers. It would also serve still further to draw attention to these plants, and to their value in the winter time, and would probably result in an increase of business in this direction. The traders' point of view is that such a show would increase the number of growers of these plants, and would therefore cut up the trade in them to some extent. Even now growers who have hitherto grown other quite distinct produce are taking up the new varieties of winter flowering carnations, and there promises to be something like a boom in them soon.

Although most of the sorts shown are of American introduction, some of our growers have also raised these carnations, and in an exhibit set up by Mr. Boyes, Leicester, at the Birmingham show recently, were included several new varieties raised by himself. These show a diversity of marking and of coloring that I have not seen in American varieties. He had intercrossed the border and the tree varieties, with the result that some of the wonderful variety of coloring of the former has been obtained, while the plants still remain true winter flowering. The white Mrs. Lawson is generally considered to be the best among the white varieties, although many flowers I have seen are not pure white. They revert to the type slightly, and are marked with pink. Messrs. Cutbush & Sons, Highgate, have one of the finest collections of winter flowering carnations in this country, and in their exhibit at the Royal Horticulture Society's meeting yesterday (December 5th) they showed several new sorts. The most striking was Nelson Fisher, a large and handsome flower of a rich deep cerise color, much deeper than Mrs. Lawson. Lord Charles Beresford is a pretty flower, white flaked with pink. General Kuroki is a very good red-scarlet variety, while Enchantress seems still to be the best pale pink.

THE POTATO BOOM

The potato boom may be said to be over now, and as was to be expected there has been a big fall in the prices of some of the boomed varieties with of course a serious loss to some of those who had bought large quantities. The National Potato Society held its second annual show quite recently, and it proved to be very popular among growers, although it did not attract many of the public. At the first show of the National Potato Society held last year, many letters were written to the gardening journals criticising the exhibition because the valuable point of flavor in potatoes was almost ignored altogether. The question of flavor in potatoes seems to be a difficult one to decide, for while some prefer a "floury" tuber like the newest varieties, others would rather have the old yellow flesh varieties so largely used on the Continent. Whatever may be the merits of the Potato Society's exhibition, it is certain that the Society is doing a good work throughout the country by means of experiments conducted in different counties with a view to testing the merits of new and other varieties under vary-

ing conditions of soil and climate. The yield and disease resisting capacity of the potatoes are two points to which special attention is being paid. Although the newer varieties may not be considered such good eating by some as the older sorts they certainly give a far larger yield of tubers, and will doubtless prove of value for market. It is a well known fact that size and appearance in both fruits and vegetables carry far more weight with the British public than does flavor. It is regrettable that so many of the new potatoes should be so huge, for an increase in size usually means loss of flavor in any vegetable.

THE COLONIAL FRUIT SHOW

Early in December the Royal Horticultural Society held an exhibition of Colonial grown fruits. The chief features of this show were the apples from British Columbia, and the great variety of produce from the West Indies. The British Columbian apples were the first consignment placed upon the English market from that country, and they were exceedingly fine. If these are to be taken as a sample of apples which British Columbia can produce, there is little doubt that she will prove a serious rival to Canada, Nova Scotia and other countries which export apples to England. The exhibit in question consisted wholly of apples shown in boxes and on dishes, and was of such an extent that it filled one end of the large hall in which the show was held. The apples were remarkable for their size and rich coloring, and so far as appearance goes were magnificent fruits. Such varieties as Jonathan, Northern Spy, Baldwin, and others were most richly colored, and the whole display attracted much attention. We were told that ten years ago British Columbia did not grow enough fruit to supply her own population, while in 1904 the value of the fruit crop was \$500,000. Among the exhibits from the West Indies were all sorts of tropical fruits, pickles and peppers, and even some Trinidad cigars, which are said to be almost if not quite as good as Havanas, and to cost considerably less.

A REMARKABLE NEW ORCHID

It is not often that I send you a note about orchids, but I am prompted to do so on this occasion by the exhibition of a very remarkable flower before the Royal Horticultural Society a few days ago. It was a new and perfectly distinct hybrid odontoglossum, and those of your readers who are interested in orchids may like to know that its parents were *O. Rossii rubescens* and *O. Harryano-crispum*. The flower is of most beautiful coloring, and is marked with purple-black spots upon a cream ground color, and all round the flower there is a distinct and fairly broad margin of purple. The lower half of the lip is purple, and the upper part cream colored. A mere word description cannot give you a true idea of its beauty, but it was admitted by orchid experts to be the most remarkable hybrid odontoglossum ever raised in this country. It was raised and exhibited by Messrs. Charlesworth & Co., Bradford, and was given a First Class Certificate.

Harry H. Thomas

A Correction

In Mr. Pettigrew's interesting article on Veitch's recent introductions from Northern China, published in issue of December 16, "2500 specimens of plants" should read "2500 species of plants."

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

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WM. J. STEWART, Editor and Manager.

The seedsmen's appeal

The seedsmen, in appealing to the President to express his disapproval of the free seed distribution as now carried on, have taken a wise course and in doing so are likely to accomplish more in the direction of getting "a square deal" than by any other means within their power. Hammering at Congress is but wasted effort.

Make the prize schedule explicit

Correspondents of the British journals are debating the question of what should be considered a "spray" of flowers, in judging chrysanthemum exhibitions. The anticipated prominence of the small-flowered varieties in future exhibitions in this country makes the topic one worthy of the consideration of the schedule makers. The length of growth, minimum number of twigs and flowers thereon, all should be stipulated in some way that will be similarly interpreted by exhibitors and judges. The term "truss" is also open to diverse construction, as will quickly be recognized by any one called upon to judge a lot of Ghent azalea exhibits. Vagueness should be eliminated as far as possible in the exhibition schedule.

What is the "market price"?

It is a generally-accepted proposition that market price is established by a majority of actual sales. Those readers of trade press quotations who are disposed to be hypercritical and take the ground that advance prices as quoted on dealers' lists and prices obtained for isolated emergency sales on cut flowers or anything else, are "market prices" and should be quoted as such, take a position which no court would sustain for a minute. If the holder of goods sets a value

that nobody will pay, that figure is worthless as indicating market value. There must be actual transactions to establish value on a specified date and the price which a majority of reputable dealers accept for a certain line of goods is the market value of such at the time of sale. So many factors have a bearing on the fluctuations from day to day and, at times, from hour to hour, of prices on such goods as American Beauty roses or violets, that to accurately record them in a weekly report would be as impracticable as the attempt would be stupid. All that the trade journals can do is to furnish approximate figures on which a general information as to the market and its tendencies may be based. This, with rare exception they do, without prejudice and after due investigation through well-qualified sources of information.

Give the forcing bulbs time

The day of the forced bulb flower comes on apace. There was a time when the advent of these flowers meant a welcome relief from the famine that lagging crops and holiday demands occasioned. In present conditions with surpluses in all lines more frequent than famines, and resultant low values, the bulb flower has to stand entirely on its own merits and consequently there is nothing in the way of special remuneration to tempt the grower to risk his crop in the effort to get these things in bloom at an exceptionally early date. So give them time; don't hurry them. The crop will be safer, the product better and the prices certainly no less.

The violets' troubles

We learn from one of our contemporaries that the feeling prevalent in the great violet-growing section "up the Hudson" is one of extreme pessimism as to the outcome of the present season. We hope the forecast is overdrawn and that, although the growers may fall short in their chickens which they "counted before they were hatched" they, nevertheless, may pull through without disaster. These doleful expressions of apprehension are not unfamiliar to us. We heard them years ago when the drop of a dollar or two in the value of certain flowers was characterized as ruin, yet the same goods now sail along on an even keel at an average of ten dollars below the values of those days. Some years ago we heard one of the most successful of the up-Hudson growers say that if he could be assured of fifty cents a hundred for his violet crop, the season through, he would in time become a rich man. If this be a fair statement—and we believe it is—then let the violet growers abandon their speculative bravado in the fall, turn the deaf ear to the plungers, listen to calm advice, cease their frenzy for new high records on prices and their disregard for the logical consequences of these flights and then—stop building for a year or two, until the outlet has reached the capacity of the product. Above all, be it remembered that impartial observers have repeatedly attributed the violet's worst reverses to its reckless defiance of the buying public at the opening of every season.

CHRYSANTHEMUM NORMA.



CHRYSANTHEMUM NORMA

This variety, which we illustrate herewith, is one of a large number of seedlings raised by Alois Frey, gardener at Lincoln Park, Chicago, and exhibited at the Coliseum show. The



SINGLE BLOOM NORMA NATURAL SIZE

ray florets are pure white, disc yellow. The ray florets are strap shaped towards the margin and slightly tubular toward the centre. The flowers are borne on long wiry stems with hand-

some foliage, each individual bloom measuring from 3-1/2 to 4 inches across. The variety is a strong grower and prolific bloomer and will make fine specimen plants.

A CHRISTMAS CARMEN.

Sound over all waters, reach out from all lands,
The chorus of voices, the clasping of hands;
Sing hymns that were sung by the stars of the morn,
Sing songs of the angels when Jesus was born!

With glad jublations!

Bring hope to the nations!
The dark night is ending and dawn has begun:
Rise, hope of the ages, arise like the sun.

All speech flow to music, all hearts beat as one!

Sing the bridal of nations! with chorals of love
Sing out the war-vulture and sing in the dove,
Till the hearts of the peoples keep time in accord,
And the voice of the world is the voice of the Lord!

Clasp hands of the nations
In strong gratulations;
The dark night is ending and dawn has begun;

Rise, hope of the ages, arise like the sun.

All speech flow to music, all hearts beat as one!

Blow, bugles of battle, the marches of peace;
East, west, north, and south let the long quarrel cease;
Sing the song of great joy that the angels began,
Sing of glory to God and of good-will to man!

Hark! joining in chorus

The heavens bend o'er us!

The dark night is ending and dawn has begun;

Rise, hope of the ages, arise like the sun.

All speech flow to music, all hearts beat as one!

John G. Whittier.

OBITUARY.

Mrs. Fearnly Sander, wife of the eldest son of F. Sander, of St. Albans, died at Bruges, Belgium, on Nov. 24.

Andrew Rudolph, an employee of J. Breitmeyer's Sons, Detroit, died on December 16 at his home in Dedham, Mass. Mr. Cheever was born on Feb. 27, 1831 and has devoted his life to agricultural pursuits.

Alonzo W. Cheever, who for nearly thirty years was associate editor of the New England Farmer, died on December 16 at his home in Dedham, Mass. Mr. Cheever was born on Feb. 27, 1831 and has devoted his life to agricultural pursuits.

James Nimon, of Denison, Texas, died on December 1 of heart failure. When thirty years of age Mr. Nimon located in Denison and has since lived in or near that place. He was appointed deputy inspector of nurseries in September last. He was the originator of the strawberry, Parker Earle, which he first produced in 1886.

San Francisco growers are remembering with kindly words an old associate plantsman and landscape gardener, Thomas Quaide, who was burned to death this week in a San Diego fire. He was gardener at the time for E. W. Scripps and lived alone in a cottage which was burned to ashes by an unaccountable early evening fire.

PERSONAL.

Alfred Dimmock sailed for England on the new Cunarder Carmania, on Saturday, the 16th inst.

Mr. Stanley Dryfoogle, the florist of Muncy, Pa., was badly scalded by escaping steam while at work in his boiler house, his left side receiving the full force of the steam as it came from the pipe.

H. A. Terry of Crescent, Ia., has sold out his business and retired, being nearly eighty years of age. He was the originator of several varieties of American plums, and is well-known as a peony enthusiast and hybridizer.

GYPSY MOTH WARFARE.

On December 14, mayors, selectmen, and tree wardens to the number of between two and three hundred visited the estate of Gen. S. C. Lawrence at Medford, Mass., to view the ravages of the gypsy and brown-tail moths and inspect the latest methods of fighting these pests. During the drive through the estate the visitors saw where thousands of trees had been already cut down and nearly a hundred men are now employed destroying eggs. Nearly \$75,000 has been expended by Gen. Lawrence in this work on this estate of three hundred acres. Year before last 500 cords of wood were cut, last year 600 cords and this year the cutting is still being carried on in the effort to stamp out the pests. This wood is valueless as, on account of its spreading the moths, it cannot be sent out of the town. Gen. Lawrence's monthly payroll for men engaged in the work is more than \$5,000. The machine which he uses for spraying when the trees are in leaf costs \$15 an hour for liquid alone and it takes two months to go over the 300 acres of woodland.

NEWS OF THE CLUBS AND SOCIETIES

GARDENERS' AND FLORISTS' CLUB OF BOSTON.

Ladies' Night, Dec. 19, was a gala occasion for members and friends, who turned out to the number of between three and four hundred to listen to an entertaining stereopticon lecture by J. K. M. L. Farquhar, to enjoy music and refreshments, and have a social, happy family time. President Wheeler, who has filled the chair with so much fidelity during the past year, opened the order of exercises with beaming countenance and graceful words of welcome. Excellent music by a mandolin club of talented young ladies, and a stirring bass solo by F. B. Cannell followed, and then Secretary Craig presented his report, showing that the membership of the club had increased from 108 to 252 in the space of one year. He advocated the admission of ladies as members, as had been the custom in the earlier days of the club's history.

Mr. Farquhar was then introduced, and for the space of an hour gave his audience a personally conducted tour through Japan, throwing on the screen a series of beautiful views illustrating the scenery, vegetation, industries and customs of the Flowery Kingdom.

Further entertainment by the mandolin club, the G. and F. Club male quartet and Mr. Cannell, filled out a program of rare enjoyment, after which ice cream and cake and coffee were served with a reckless liberality that would bankrupt any ordinary institution.

On the exhibition table were F. R. Pierson Company's three sterling carnation novelties, Winsor, White Enchantress and Helen Miller Gould, staged by Mr. Fotheringham. W. N. Craig showed eleven varieties of *Lelia* anceps, also L. autumnalis, L. Goldiana and L. autumnalis X anceps. President Wheeler showed vases of the old favorite rose Wootton, whose fragrance has never yet been excelled in a forcing rose. Most of these flowers eventually came into the possession of the young ladies of the mandolin club, as a matter of course.

AN OUTING.

On Saturday, the 16th inst., members of the Gardeners' and Florists' Club of Boston, enjoyed a field day at Framingham and South Framingham, visiting the greenhouses of J. T. Butterworth, which they found all abloom with orchids, and the carnation houses of S. J. Goddard and William Nicholson, where the Divine flower was found in unexcelled profusion and quality. About sixty members were in the party. Helen Goddard was the centre of attraction, and secured much favorable comment. All the popular varieties and novelties were seen at their best, Fred Burki and Cardinal especially. Fiancee has been throwing a good crop, but is now splitting badly. At Mr. Nicholson's a nice lunch was served.

MASSACHUSETTS HORTICULTURAL SOCIETY.

The program of the annual course of lectures of the Massachusetts Horticultural Society is announced. The lectures will be given on Saturday mornings, beginning at eleven o'clock, and are free to all. After each lecture opportunity will be offered for a full discussion of the subject. The list is as follows:

January 13—The Possibilities from Insect Parasites, with stereopticon illustrations, by Dr. L. O. Howard, Washington.

January 20—Garden Accessories, with stereopticon illustrations, by Loring Underwood, Boston.

January 27—The Best New England Fruits, General Discussion, opened by E. W. Wood, West Newton.

February 3—Abandoned Farms and Their Capabilities, by Prof. W. M. Munson, Orono, Me.

February 10—Vegetable Growing, General Discussion, opened by Hon. Warren W. Rawson, Arlington.

February 17—Hardy Flowers, General Discussion, opened by E. O. Orpet, So. Lancaster.

February 24—Vegetable Breeding, by Harry F. Hall, Durham, N. H.

March 3—Tender Flowers, General Discussion, opened by William N. Craig, No. Easton.

March 10—Small Fruits, General Discussion, opened by Wilfrid Wheeler, Concord.

Lecture on Economic Mycology. (Lecturer and date to be announced.) W. M. P. RICH, Sec.

Boston, Dec. 19, 1905.

AMERICAN ASSOCIATION OF PARK SUPERINTENDENTS.

The regular mid-winter session of the executive board of this body was held at Boston on December 14. The members of the committee present were President Wirth, Secretary Duncan and Messrs. Zartmann and Worthen. There were also in attendance the following members of the Association: Messrs. Pettigrew, Fitts, Parker, Armthyn, Keith, Dawson, Shea and Stewart. The main business was the selection of a place for the next convention. Washington, D. C., Harrisburg, Pa. and Toronto, Ont., were all in nomination and supported by their advocates and Washington won out as is her custom when she goes into a contest. The convention will be held June 12, 13 and 14, 1906, and President Wirth, Secretary Duncan with Dr. Frank Baker of Washington are the committee to arrange therefor.

ELBERON HORTICULTURAL SOCIETY.

A meeting of this society was held on Dec. 18, at which there was a large attendance. Four new members were admitted. It was proposed to hold a flower show some time during the coming summer, and the matter was placed in the hands of a committee. A. J. Guttman of New York, was a visitor, and exhibited a vase of carnation "Victory," which was awarded a certificate of merit.

MORRIS CO. (N. J.) GARDENERS' AND FLORISTS' SOCIETY.

Our regular monthly meeting was held on the 13th inst. and the following officers elected for the coming year: President, J. Heeremans; vice-president, R. M. Schultz; secretary, E. Reagan; treasurer, Wm. Charlton; executive committee, C. H. Totty, R. McMullen, R. Vince, A. Herrington, H. L. Hand, Wm. Muhlmichel, Alex. Brown, A. Mc Kendry, Wm. Duckham, A. H. Secker, J. R. Halliday, J. R. Mitchell. The newly elected officers made neat speeches of acceptance. A letter from Wm. Duckham, who is in Europe, was read to the society. He gave us his impression of the Glasgow Flower Show and its chrysanthemums in particular. We are expecting an interesting paper on his travels when he returns.

Our tenth annual smoker will be held in our club rooms, Madison, on January 10, at 8 P. M. Committee in charge, A. Herrington, C. H. Totty, E. Reagan. Like our flower show, we take great pride in our social affairs, and the aim of the committee will be to have this one, if possible, better than ever before.

E. REAGAN.

STATE HORTICULTURAL SOCIETY OF MARYLAND.

The annual meeting was held at Baltimore on December 6 and 7. Governor Warfield and President Remsen of the Johns Hopkins University opened the meeting, and Hon. James S. Harris responded. The address of C. L. Seybold on ornamentals and their uses in beautifying suburban home grounds and plain home gardens was exceedingly interesting. Among the exhibits of cut flowers that of H. Weber & Sons Co., of Oakland, was noted as especially fine.

The following officers were elected for the ensuing year: President, E. P. Cabill, Hancock; vice-president, O. Harrison, Berlin; vice-presidents from twenty-three counties; secretary-treasurer, Dr. T. B. Symons, State Entomologist, College Park.

ST. LOUIS FLORISTS' CLUB.

The St. Louis Florists' Club held their meeting Thursday, December 14, with an attendance of 20 members. The flower show committee read their report, and the revising committee of the constitution and by-laws made their report after which all the members present signed the constitution as charter members of the incorporation of the club. The trustees handed in a list of names of members to lead discussions on various subjects for each meeting of the coming year.

BANQUET FOR CARNATION SOCIETY.

The Boston committee on entertainment of the American Carnation Society announces that a banquet will be given the members of that society on the evening of January 25, at the Copley Square Hotel, by the horticultural interests of Boston under the auspices of the Gardeners' and Florists' Club of Boston.

DREER'S PLANTS FOR FORCING



Azalea Mollis

For early and late forcing Azalea Mollis is rapidly gaining favor. Easily forced at a minimum cost for heat and labor, they are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, \$4.50 per dozen; \$35.00 per 100.

Deutzias for Forcing

Strong two-year old field grown plants, suitable for 6-inch pots:
 Gracilis: \$. 75 per doz.; \$6.00 per 100 Gracilis Rosea: \$1.00 per doz.; \$8.00 per 100
 Gracilis Lemoinei: \$1.00 per doz.; \$8.00 per 100

Forcing Lilacs

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, \$6.00 per dozen; \$45.00 per 100.

Rhododendrons for Forcing

These are being used more extensively every season, and this year with Easter at such a late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy well shaped plants, covered with buds, 20 to 24 inches high, \$1.00 each; \$11.00 per doz.; \$90.00 per 100.

Crimson Rambler Roses

A grand lot of two-year old extra heavy plants, the finest we have ever offered, just right for putting into 6 and 7 inch pots, either for Easter flowering or spring sales; a very select stock, \$2.00 per doz.; \$15.00 per 100.

The New White Rose, Frau Karl Druschki

This is really the first White Hybrid Perpetual Rose introduced, snow white in color of perfect form and remarkably free flowering. You will not make a mistake in including at least a trial lot with your Easter flowering stock, \$3.00 per doz.; \$25.00 per 100.

Pink and White Maman Cochet Roses

We have a fine lot of strong field grown plants suitable for potting up into 5 and 6 in. pots, which will make fine stock for retailing in spring, \$1.25 per doz.; \$10.00 per 100.

The Baby Rambler

Fine imported two year old English-grown stock, \$3.50 per doz.; \$25.00 per 100. Also an extra fine lot of heavy plants in 3-inch pots \$2.00 per doz.; \$15.00 per 100.

Rose, Killarney

Strong two-year old budded plants, Irish grown, \$4.00 per doz.; \$30.00 per 100.

For a Complete List of Seasonable Stock see our Current Wholesale List.

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA.

LENOX HORTICULTURAL SOCIETY.

The regular meeting of the Lenox Horticultural Society was held in the Town Hall, Lenox, Mass., Dec. 16. A larger number of members than usual turned out as a compliment to the newly elected officers. Seated beside President Carlquist were Vice-president Heeremans and Treasurer McConachie. Arthur T. Boddington of New York and Jas. T. Scott of Tarrytown, were present. A proposition by Mr. Boddington, that the society adopt a scale of judging points for all classes of exhibits drew out a lengthy debate but was finally adopted unanimously. Jas. T. Scott responding to the invitation of the president, gave a short talk, dwelling upon the excellence of our exhibits, particularly on the unique construction of our plant groups, and the individuality and taste displayed. According to him, Lenox was doing missionary work in this respect, the average plant groups at most exhibitions partaking of the haycock form and built with plumb and rule precision. He regretted very much that the country at large, did not know more fully, the grand work that was being accomplished for horticulture in this section.

F. R. Pierson & Co. of Tarrytown, N. Y., had on exhibition three vases of new carnations, one each of Helen Miller Gould, White Enchantress and Winsor. Mr. Scott explained the characteristics of each variety. Winsor is a beautiful light pink in color, very much resembling Lawson in size, form and stem. Mr. Scott said that in freedom of growth and production it ex-

celled that grand old variety, and so far they never had been troubled with bursted calyx. White Enchantress and Helen Miller Gould, sports of Enchantress, seem destined to become winners. The latter with its unusual variegation makes a very striking combination. We understand that Miss Gould saw the flowers at Tarrytown, and was very much in love with them, hence the name. Each was awarded a first class certificate.

The president named the members for the various committees for the ensuing year. He also appointed a committee to draw up resolutions of condolence to be sent to the bereaved families of Mr. John Sloane and Mrs. Biddle, both life members of the society. They both have taken a very active and keen interest in all the society's doings and subscribed most liberally to the funds. Their death is a serious loss to the society.

GEO. FOULSHAM, Sec.

SOCIETY OF AMERICAN FLORISTS AND ORNAMENTAL HORTICULTURISTS.

Department of Plant Registration.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y., submit for registration the following carnations:

Winsor. Seedling. Color light silvery pink, intermediate between Lawson and Enchantress.

Helen M. Gould. Sport of Enchantress. Color bright pink, covered with minute pencillings of deeper shade.

White Enchantress. Sport of Enchantress. Color pearl white on opening, becoming pure white as flower matures. W. M. J. STEWART, Sec.

CLUB AND SOCIETY NOTES.

The State Park and Forestry Association of Iowa has re-elected its old officers: President, L. H. Pammel, Ames; vice-president, W. A. Burnap, Clear Lake; secretary, T. H. Macbride, Iowa City.

The new officers of the Columbus Florists' Club (O.) are: President, Sherman Stephens; vice-president, R. A. Curry; secretary, James McKellar; treasurer, M. Reichart. Meetings are held on the first Tuesday evening of each month.

The Scranton Florists' Club (Pa.) was recently organized with officers as follows: President, Jonathan Rodham of Scranton; secretary, T. B. McClintock, Dunmore; treasurer, Wm. McDonald, Moosic. The club starts with a membership of forty.

Hon. Wesley Greene of Davenport, Ia., entertained several hundred members of the State Horticultural Society at a banquet in the Savery hotel on December 14. A feature of the evening was the presentation to Mr. Greene of a magnificent gold watch, appropriately engraved, by his friends in the society. M. J. Wragg made the presentation address. Wm. Langham of Cedar Rapids, a veteran among the fruit growers, was the toastmaster for the evening, and happy responses were made by Prof. Curtiss of Ames, C. L. Watrous and G. H. van Houten.

Officers were elected for the ensuing year as follows: President, W. A. Burnap, Clear Lake; vice-president, W. M. Bomberger, Harlan; secretary, Wesley Greene, Davenport; treasurer, Elmer Reeves, Waverly. The outgoing directors were re-elected.

A CARNATION

which has no rival

White Lawson

Rooted Cuttings Now Ready. \$4.50 per 100; \$40.00 per 1000. From the stock which won the Music Hall Market Prize at Boston last spring.

T. F. MATTHEWS,

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The Florists' Supply House
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offers a full line of Mid-winter
Novelties and Special Designs in

Baskets, Tone Ware, etc., Wreaths of
Cycas, Moss, Ruscus, Immortelles,
etc., Beech Sprays, Cork and Birch
Bark, Wheat Sheaves, Water-
proof Paper, Hampers, Bells, etc.

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Christmas Bells!!

Per Doz.	Per Doz.
16 in. \$9.00	9 in. .75 to \$1.12 1/2
14 in. 4.50	8 in. .40
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Glassware Decorative Greens and Florists' Requisites.

FANCY OR
DAGGER **FERN** No. 1 STOCK,
only 75c per 1000
GALAX, Brilliant bronze or green
75c per 1000

Use our laurel festooning for your
Decorations. It gives the best satisfaction of
any decorative green at this time of the year.
Sample lot on application. We make it daily,
gathered fresh from the woods. Hand made,
full sizes, 16, 36 and 60 per yard. Once used,
always used. Branch Laurel, 35c per large bundle, Princess Pine by the
pound or made into festooning when desired.

CROWL FERN CO., MILLINGTON, MASS.

PACIFIC COAST NOTES.

The California State Fruit Growers' Association adjourned its convention last Saturday with a resolution declaring it to be the sense of the convention that the state farm site, to be decided upon next month, should be located away from near Berkeley and not to be conducted as a laboratory venture in connection with the University of California, but conducted in a manner that will enable the horticultural interests of the state to obtain practical benefits.

I met this week in San Francisco J. C. Vincent, landscape gardener at the State Asylum in Stockton, California. He enjoys state-wide renown for the beautiful work he has done in his line at Stockton. Before going there Mr. Vincent was for six years in charge of the conservatories in Golden Gate Park, and six years with J. C. Siegfried, the orchid propagator in Alameda, California.

The California State Floral Society held a meeting this week and heard an interesting talk by Mrs. W. D. O'Brien on her personal experiences and observations in the jungle of the Malay states. Her descriptions were filled with instructive matter of an unusual nature dealing with the people in their primitive ways and speaking of the flora, including the wonderful coccolut groves. "The latitude of that country, lying only a few degrees north of the Equator, produces a constant tangle of growth," she said, "but the gardeners are of superior intelligence keeping verdure controlled and trimmed to a degree of perfect beauty."

Country orders being received by San Francisco florists indicate that the shipping trade for Christmas will beat the record, and city orders at hand for this greatest of all holidays are not at all behindhand.

San Jose, California, a city of magnificent parks and beautiful flowers, voted this week 4 to 1 in favor of a \$500,000 bond issue for the laying out of more parks and improved sanitation.

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS

This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.

Black Letters, 1/2 or 2 inch size per too, \$2.
Script Letters, 1/2. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

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Wholesale Dealer in

SOUTHERN WILD SMILAX

and Florists' Hardy Decorative Supplies.
New crops now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale

Wild Smilax, Palmetto and Cycas
(fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.

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20 West 27th St., New York.

GALAX

Bronze and green Galax, 60c per 1000
Fancy and Daggers, 50c " "
Green Leucothoe Sprays, 5.00 " "
Bronze Leucothoe Sprays, 5.00 " "
Rhododendron Sprays, 5.00 " "

No stock fresh from the patch, 13
years' experience. Watch for new hobo
dealers. Kindly remit with first order.

J. N. PRITCHARD - - - Elk Park, N. C.

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THE BEST SCARLET CARNATION—Being remarkably prolific

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**Artistic Designs
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We cover all Michigan points and good
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Blackiston Florist
14th and H Sts. N.W.
Washington, D.C.

PHILADELPHIA NOTES.

Roland von Waldburg, at one time
right hand man to the late Charles H.
Miller in the landscaping business,
has formed a partnership with A. E.
Wohlert, Bala, and will take charge of
a similar line with the new concern.
Mr. Waldburg had an excellent Euro-
pean training before coming to
America. The new firm, trading un-
der the title of Wohlert & Waldburg,
is sending out a neatly illustrated
little booklet to present and prospec-
tive customers.

The public sale announced for De-
cember 18th of the Peacock dahlia
stock did not come off. The warring
interests represented on one side by
the mortgagee of the farm property
and L. K. Peacock, and on the other
side by the general creditors reached
a basis of agreement at a meeting
held at Camden, N. J., on the 15th
which seems likely to result in a sat-
isfactory adjustment of claims and a
continuance of the business.

We hear that R. Lockerbie, late of
Wilmington and Philadelphia, has
now gone with the Metairie Ridge
Nursery Co. of New Orleans as man-
ager of their greenhouse department.

Prof. H. A. Surface, state zoologist
of Pennsylvania, gave an interesting
lecture on the San Jose scale at the
monthly meeting of the Pennsylvania
Horticultural Society on the 19th inst.
Successful spraying for this pest must
be done between now and the first of
May, as it cannot be properly reached
while the foliage is on the trees.

Some of our Philadelphia whole-
sale florists who have been in New
York recently admire the way the
wholesale people make the store men
toe the mark. My! if we could only

**Geo. H. Cooke
FLORIST**

Connecticut Avenue and L Street
WASHINGTON, D. C.

**A. Gude & Bro.
FLORISTS**

1214 F ST., WASHINGTON, D. C.

**SAMUEL MURRAY
Florist**

Coates House Conservatory
1017 BROADWAY, KANSAS CITY, MO.
Both 'Phones 2670 Main

do it like that in Philadelphia! To
hear them, one comes to the conclu-
sion that the Philadelphia retailers
are a lot of pampered tyrants. The
antidote is to go to Baltimore and
see how the retailers rule the roost
there! In that burg a 10-cent bunch
of violets must have special delivery
inside of 15 minutes else there will be
thunder and a special meeting of the
Exchange directors.

That 5-team league match of the
florist club bowlers is now nearing an
end. Dunham's team looks like a sure
winner unless Westcott's can take two
out of three on the 20th—and even
then it would only be a tie. And
three straight for the commodore is
surely hopeless.

Mrs. Samuel S. Pennock and family
are spending the Christmas holidays
in Rhode Island.

Merry Christmas to us all—every
one!

A BALTIMORE ENTERPRISE.

It was stated today at the Florists'
Exchange that no definite plans have
been decided on for the building to be
erected on the vacant lot at the south-
west corner of Franklin and St. Paul
streets which was purchased last week.
The directors of the corporation are
considering the erection of a two-story
structure, however. The first floor
will be devoted to the use of the Ex-
change for the wholesale handling of
flowers. On the second floor a large
hall is contemplated. This hall, it has
been suggested, may be used by the
Gardeners' Club of Baltimore for its
meetings. In the basement there may
be several bowling alleys for the use
of the members of the Club. The lot
purchased has a frontage on Franklin
street of 32 feet, with a depth on St.
Paul street of 100 feet. The officers of
the Florists' Exchange are: President,
J. H. Rider; vice-president, S. C.
Bauer; Secretary, E. C. Akehurst;
Treasurer, W. G. Lehr.

The officers, with Messrs. I. H. Moss,
E. A. Siedewitz and F. G. Burger,
comprise the board of directors.—
Baltimore News, Dec. 11.

NURSERY RATES REDUCED.

We learn through the Country
Gentleman that through the efforts of
the transportation committee of the
Eastern Nurserymen's Association that
a reduction of 15 per cent. has
been obtained from the railroads on
freight rates on nursery stock shipped
in less than carload lots. This agree-
ment was secured from the trunk line
classification committee, whose juris-
diction extends from the Mississippi
River eastward and the Potomac River
northward, and must be submitted to
the roads interested.

We wish you all
A Happy and Prosperous
New Year

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If you wish to buy or sell, see them first

'PHONE CENTRAL 2571

60 WABASH AVE., CHICAGO

In writing advertisers, mention Horticulture

Fine Bouvardia Valley
CARNATIONS

W. J. Baker, 1432 So. Penn Sq.
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FARLEYENSE

Very choice, plants \$1.00, \$1.50, \$2.00 and \$2.50;
cut fronds, 15c.

WHITE VIOLETS

\$2.00 per 100.

Samuel S. Pennock

WHOLESALE
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1612-1618 Ludlow Street. Store closes 8 P. M.

WIETOR BROS.

Wholesale Growers of

CUT FLOWERS

51-53 Wabash Ave., CHICAGO, ILL.,

In writing advertisers, mention Horticulture

CHAS. W. MCKELLAR

51 WABASH AVE., CHICAGO

Western Headquarters for Choice Orchids

Valley Violets and all Cut Flowers

A Daily Shipment
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TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO		ST. LOUIS		PHILA.		BOSTON	
	Dec. 21	Dec. 18	Dec. 18	Dec. 18	Dec. 18	Dec. 18	Dec. 21	Dec. 21
ROSES								
Am. Beauty and Edgely Fan. & Sp.	80.00	to 95.00	80.00	to 100.00	.....	to 50.00	75.00	to 100.00
" Extra.....	48.00	to 64.00	50.00	to 75.00	.....	to 40.00	25.00	to 50.00
" No. 1.....	24.00	to 40.00	25.00	to 50.00	.....	to 30.00	10.00	to 15.00
" Lower grades.....	8.00	to 16.00	8.00	to 20.00	10.00	to 20.00	4.00	to 6.00
Bride & Maid—Fan. & Sp.	12.00	to 15.00	12.00	to 15.00	8.00	to 10.00	20.00	to 35.00
" Extra.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	8.00	to 15.00
" No. 1 and Lower grades.....	6.00	to 8.00	6.00	to 8.00	3.00	to 5.00	3.00	to 6.00
Liberty, Richmond Fancy.....	12.00	to 20.00	15.00	to 20.00	10.00	to 15.00	20.00	to 35.00
" Ordinary.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	5.00	to 15.00
Carnot and Kaiser's Fancy.....	10.00	to 15.00	10.00	to 15.00	8.00	to 10.00	10.00	to 15.00
" Ordinary.....	8.00	to 10.00	8.00	to 10.00	8.00	to 10.00	2.00	to 8.00
Golden Gate, Chateaux, Fancy.....	12.00	to 15.00	15.00	to 20.00	8.00	to 10.00	8.00	to 15.00
" Ordinary.....	10.00	to 12.00	8.00	to 12.00	5.00	to 6.00	2.00	to 6.00
CARNATIONS								
Fancy Class.....	7.00	to 10.00	7.00	to 8.00	5.00	to 6.00	6.00	to 8.00
General Class and Lower grades.....	4.00	to 5.00	4.00	to 5.00	2.00	to 4.00	2.00	to 6.00
MISCELLANEOUS								
Cattleyas.....	75.00	to 80.00	.....	to 50.00	.....	to 10.00	.....	to 75.00
Late of the Valley.....	4.00	to 5.00	1.00	to 4.00	2.00	to 4.00	3.00	to 5.00
Violets.....	1.50	to 2.50	1.50	to 2.50	1.00	to 1.50	.75	to 1.50
Adiantum Crown-stem.....	.....	to .75	1.00	to 1.25	.....	to 1.00	.50	to 1.00
Crocus.....	.....	to 1.00	.....	to 1.00	.....	to 1.50	.....	to 1.50
Smilax.....	12.50	to 15.00	12.00	to 18.00	12.50	to 15.00	8.00	to 12.00
Asparagus Plumous, strings.....	40.00	to 50.00	35.00	to 75.00	40.00	to 50.00	35.00	to 50.00
" " & Sprenger, bunches.....	11.00	to 15.00	25.00	to 75.00	40.00	to 50.00	20.00	to 50.00
Poinsettias.....	25.00	to 35.00	15.00	to 25.00	5.00	to 10.00	2.00	to 5.00
Romans, Paper Whites.....	3.00	to 4.00	2.00	to 4.00	2.00	to 4.00	1.50	to 2.00
Lilium Harris.....	15.00	to 20.00	to 20.00	to 20.00	to 20.00
Callas.....	12.50	to 15.00	to 15.00	to 15.00	to 15.00

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Flower Market Reports.

BOSTON Christmas supply and Christmas prices all hang upon the weather problem. During the week the air has been balmy as May, and bright sunlight has been pushing things along at a rapid rate, but at present writing a gloomy storm of rain and mist prevails. Carnations are strong and bid fair to hold their own as far as colored varieties are concerned. Violets are showing evidences of weakness. Lower values are freely predicted for the wind-up. Last year violets made a good record and maintained their price throughout. American Beauty experts seem undecided as to what the next few days holds for them. One hundred dollars per 100 is the limit of certainty, but the market is likely to be tested on a twenty-five per cent. advance over this figure. Other roses are also in the doubtful column as to how high the maximum price for choice material may be pushed, but the \$12 to \$16 limit is where most of the shipping trade, and much of the local trade will take its stand.

BUFFALO Cut flower trade very quiet since last report, especially of violets and Beauties, violets dropping off in demand, and a good many having to be moved at low figures. Carnations move readily and quality is excellent. Select roses are somewhat scarce, and prices are moving upward. Lily of the valley, Romans, narcissi and other flowers are coming in rapidly.

LOUISVILLE Business conditions the previous week were about up to expectations, however stock was hard to get at the right price. Carnations are heavily demanded, and the quality is good but the supply is not adequate. The demand and supply of roses is normal, while the quality is good. Violets have had an unusually good demand, and are very scarce. Mignonettes, lilies of the valley, bulbous

stock, etc., meet with a satisfactory demand. Undoubtedly Christmas will be up to expectations. The supply of plants will be good, but cut flowers in some lines will be very scarce.

NEW YORK This market is, at the present time, sparingly supplied with Bride, Bridesmaid and red roses; the latter is in light supply because of natural conditions—other roses largely because of the cutting out by the growers of stock that will keep until Saturday or Sunday. Carnations are more plentiful than roses, but price holds steady on good sorts. Violet shipments are lighter. Harrisii lilies have been selling well and retain the advance in price made during the past ten days. Lily of the valley, hyacinths, paper whites, stevia and green goods are seen in every wholesale house, but do not meet with ready sale. The general demand for cut flowers is not by any means brisk, but that is usual the week preceding Christmas. Weather conditions favor a good supply of carnations, American Beauties and bulbous stock, and a fair supply of small roses except red. There does not seem to be any question as to whether there will be enough violets to go around; there ought to be sufficient.

PHILADELPHIA Trading was fairly active the past week, with prices generally stationary at the advance noted in our last report. Although there was no drop in quotations, there was quite a bit of the lower grade stocks left without takers at the wind-up. Friday and Saturday were stormy and hurt some. The outlook for the Christmas trade is good, and no scarcity of stocks is anticipated unless it may be in red roses. Even these promise to be in better supply than last year. In red carnations no scarcity is looked for, as there are fine crops coming in of Bliss, Crane, Crusader and Flamingo. In crimson there will be plenty of Harry Fenn, etc. Other lines normal and without special features calling for comment.

TOLEDO Business in Toledo has been going on in the usual way, Christmas bells and holly and other greens filling the stores and windows. Poinsettias, cyclamens, primulas, azaleas and some Gloire de Lorraine begonias help to make windows gay and attract buyers, and the outlook for a good Christmas business is very promising. It is strange, indeed, that other business houses, such as grocers and dry goods stores here are the first to decorate their stores and offer for sale such strictly florists' goods as holly, wreathing, etc., and in this way take the cream of the milk,

because it is the early bird that catches the worm!

WHOLESALE QUOTATIONS ON CHRISTMAS PLANTS.

PHILADELPHIA quotes Lorraine begonias, 6-in. pots, 75c. to \$1.00 each; 8-in., \$2.00; 10-in., \$3.00. Oranges, 6-in., \$1.00; 8-in., \$3.00. Dracaena terminalis, 6-in., 75c. to \$1.00. D. Sanderiana, 3-in., \$1.00 per 100. Arca lutescens, 6-in., 75c. to \$1.00 each.

NEW YORK quotations are as follows: Lorraine begonias, 2 1/2-in., 35c.; 6-in. pans, \$1.00 to \$1.50; 7-in., \$2.00 each. Ardisias 5-in. \$1.00 to \$1.50; 6-in. \$2.00; 7-in. \$3.00 to \$4.00 each. Chinese primroses 4 1/2-in. 25c. Kentias, 6-in. \$1.00; 7-in. \$2.50 to \$3.00; 8-in. \$3.00 to \$5.00. Arcas 4-in. 50c.; 5-in. 75c.; large sizes \$2.00 upwards. Livistonia rotundifolia, 4-in. 50c.; 7-in. \$1.00 to \$1.50. Cocos Weddelliana 3 1/2-in. 15c. Dracaena indivisa 5-in. 35c.; 6-in. 50c.

BOSTON quotes Lorraine begonias at 35c. to \$1.50 each. Poinsettias, 50c. per head. Ardisias \$2.00 each. Oranges \$1.50 to \$2.00 each. Cyclamens 50c. to \$1.00 each.

NEWS NOTES.

The new officers of Music Hall Market, Boston, are: President, Edward Wood; clerk, Wilfrid Wheeler; treasurer, George Ayer; directors, H. A. Stevens, John McFarland, Robert Montgomery, Thomas Capers, Donald Carmichael, N. F. Comley.

At Horticultural Hall, Boston, Dec. 9, a certificate of merit was awarded Oakes Ames, S. Bolton, gardener, for Zygocix Amesiana an interesting cross between Zygopetalum brachypetalum and Colax jugosa, and a silver medal for Cypripedium tonso Charlesworthi, a form of this cross with extra large flowers showing Charlesworthi blood in the upper portion of the dorsal sepal, the rest of the flower rather closely resembling C. tonsum.

A certificate of merit was also awarded A. H. Fewkes for a new variegated form of Stevia serrata.

FIRES.

The greenhouses of Fred Holland at Highland, Ill., were totally destroyed by fire on December 7. No insurance.

Fire started in the boiler house and partially destroyed the greenhouse of Mrs. Lizzie Davis at Linton, Ind., on December 5. No insurance.

An overheated furnace in the greenhouse of Henry Hoelscher, Vine St., Hamilton, O., on December 7, destroyed a quantity of valuable plants.

Delos Bros. were among the sufferers in the fire in the Cooper Building, Brooklyn, N. Y., on the morning of December 14, to the extent of \$700 which was covered by insurance.

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Roses					Carnations				
Am. Beauty, fan and sp.....	30.00	to 50.00	35.00	to 60.00	Fancy Class.....	5.00	to 8.00	5.00	to 10.00
EXTRA.....	20.00	to 30.00	25.00	to 35.00	General Class and Lower grades...	2.00	to 4.00	2.00	to 4.00
No. 1.....	10.00	to 20.00	15.00	to 20.00	Cattleyas.....	50.00	to 100.00	50.00	to 100.00
Lower grades.....	2.00	to 5.00	1.00	to 6.00	Lily of the Valley.....	2.00	to 4.00	2.00	to 4.00
Bride & Maid, fan and sp.....	12.00	to 15.00	12.00	to 20.00	Chrysantheums.....	1.00	to 2.00	1.00	to 2.00
extra.....	8.00	to 10.00	8.00	to 12.00	Oncidium.....	2.00	to 3.00	2.00	to 3.00
No. 1 and lower grades.....	3.00	to 7.00	3.00	to 8.00	Lilies.....	12.00	to 15.00	12.00	to 15.00
Liberty, Richmond fan, and sp.....	15.00	to 25.00	15.00	to 25.00	Violets.....	.50	to 1.25	.50	to 1.25
Ordinary.....	3.00	to 10.00	1.00	to 10.00	Adiantum Cuneatum.....	.75	to 1.25	.75	to 1.25
Carnot and Kaiserin, fancy.....	.....	.....	.....	.....	Crownatum.....	.....	to 1.50	1.50	to
Ordinary.....	.....	.....	3.00	to 6.00	Smilax.....	6.00	to 12.00	6.00	to 12.00
Golden Gate, Chateaux, fancy.....	10.00	to 15.00	10.00	to 15.00	Asparagus Plumosus, strong.....	20.00	to 35.00	20.00	to 35.00
Ordinary.....	3.00	to 6.00	3.00	to 5.00	& Sprengeri, bunches.....	10.00	to 20.00	10.00	to 25.00
Romans, Paper Whites.....	1.00	to 2.00	1.00	to 2.00	Poinsettias.....	20.00	to 30.00	20.00	to 35.00
					Cypripediums.....	12.00	to 15.00	12.00	to 15.00

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	Page		Page
Allen Wm. Stuart Co.	691	McCarthy N. F. & Co.	686-691
Aschmann Godfrey.	676	McConnell Alex.	687
Baker Wm. J.	683	McClack Charles W.	688
Rambrock, Thos. H.	695	McKissick W. E.	689
Barrows, H. H. & Son.	676	McManus J.	690
Bayardorfer H. & Co.	686	Mayfield J. B.	697
Beaven, E. A.	686	Michigan Cut Flower Exchange	691
Black, Chas.	675	Millang Charles	691
Blackstone Z. D.	687	Millang Frank	690
Boas W. J. & Co.	686	Minninger J. C.	695
Robbink & Atkins.	675	Mt. Hissarlik Nurseries	695
Boudryton A. T.	678	Murdoch J. B.	691
Bonnat Bros.	694	Murray Samuel	687
Boston Florist Letter Co.	686	Niessen Leo, Co.	688
Breck Joseph & Sons	678	Patten & Co.	674
Breitmeier's J. Sons	687	Pennock Samuel	674-688
Budington J. A.	688	Perkins John	691
Burnham Hitchings.	678	Phila. Cut Flower Co.	688
Pierson Co.	696	Pierson F. R. Co.	696
Burpee W. A. & Co.	678	Pittsburg Cut Flower Co.	691
California Rose Co.	675	Prichard J. N.	686
Chicago House Wrecking Co.	690	Rawson W. W. & Co.	678
Chicago Carnation Co.	674	Raymond J. A.	676
Cochran	678	Reed & Keller	689
& Spawn Co.	678	Reed Edw.	689
Cooke G. H.	687	Reinberg Peter	688
Cottage Gardens	678	Robinson H. M. & Co.	691
Crowl Fern Co.	686	Roehrs Julius	675
Dulger Wm.	690	Rolker August & Son	675
Dimmock A.	687	Saltford Geo.	691
Dreer H. A.	685-695	Sander & Son	676
Dysart R. J.	695	Schillo Lumber Co.	695
Eicholtz Harry	674	Schmidt J. C. Co.	675
Elliott Wm. & Son.	676	Scholl John A.	695
Erj. J. G.	695	Scott John	696
Ernest W. H.	696	Sharp Partridge & Co.	695
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For Bros.	690	Sievers J. H. & Co.	674
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Hail Asso.	695	Suzuki & Iida	691
Hammond Paint & Slag Shot Works	674	Thompson J. D. Co.	674
Heller & Co.	678	Thornburn J. M. & Co.	678
Hewes H. & Co.	695	Thornton Bros.	686
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Igoe Bros.	674	Vaughan and Sperry	688
Kasting W. F.	681	Wahl M. H.	675
Kavan, The	681	Ward Ralph M. Co.	678
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Kloeker A.	695	Weber H. & Sons	674
Lager & Hurrell	676	Weiland R.	688
Lang Juh.	671	Weiland R.	688
Langley, Alfred H.	671	Wheeler & Co.	676
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		Winterston E. F.	686

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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R. M. Ward & Co., New York.
For page see List of Advertisers.

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Japan Lily Bulbs.
For page see List of Advertisers.

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Arlington Tested Seeds for Florists.
For page see List of Advertisers.

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For page see List of Advertisers.

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For page see List of Advertisers.

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Philadelphia, Pa.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 123 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

Cottage Gardens, Queens, N. Y.
Carnation Robert Craig.

H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings Variegated Lawn.
For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y.
Carnation Victory.
For page see List of Advertisers.

H. T. Totty, Madison, N. J.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Pink, Patten and Mikado Carnations.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
John E. Haines, My Maryland.
For page see List of Advertisers.

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For page see List of Advertisers.

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C. H. Totty, Madison, N. J.
For page see List of Advertisers.
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For page see List of Advertisers.

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Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

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C. Winterich, Dedham, O.
For page see List of Advertisers.

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The F. W. Fletcher Co., Amherst, Mass.
For page see List of Advertisers.

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Holly-Castle Co., 40 Federal St., Boston.

FERNs.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowsii.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Piersonii Elegantisima.
For page see List of Advertisers.

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H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Boston.
For page see List of Advertisers.

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For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Pittsburg, Pa.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
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For page see List of Advertisers.

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Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

Koral Mfg. Co., 26 Hawley St., Boston.
G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.

Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.

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W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

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For page see List of Advertisers.

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The E. G. Hill Co., Richmond, Ind.

GLADIOLUS.

Rowehl & Granz, Hicksville, L. I., N. Y.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

Metropolitan Material Co., Brooklyn, N. Y.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulner Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

The Kervan Co.,
20 W. 27th St., New York.

For page see List of Advertisers.

Michigan Cut Flower Co., 38 and 40 Miami
Ave., Detroit, Mich., Wm. Dilger, Mgr.

Fancy Ferns.
For page see List of Advertisers.

Crowl Fern Co., Millington, Mass.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heater Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York.
Plants tender or hardy.

For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawn Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NICOTIANA SANDERAE.

Sander & Sons, St. Albans, Eng.

NURSERY STOCK.

Mt. Hissarlik Nurseries,
New Rochelle, N. Y.

For page see List of Advertisers.

Franklin Davis Nursery Co.,
Baltimore, Md.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Wheeler & Co., 1250 Beacon St.,
Waban, Mass.

For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
Dendrobium Phalaenopsis Schroederianum.
For page see List of Advertisers.

PAEONIES.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not, Geran-
iums.

For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

PLANTS FORCING.

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Spinacea Gladstone, Japonica, Lily of the
Valley.

For page see List of Advertisers.

PLANT POTS AND PEDESTALS.

Jones, McDuffee & Stratton Co., Boston

POINSETTIAS.

W. H. Siebrecht, Astoria, Long Island
City, N. Y.

For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

PRIMULA OBCONICA.

W. S. Herzog, Morris Plains, N. J.
For page see List of Advertisers.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publish-
ing Co., Boston.

For page see List of Advertisers.

The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Breitmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

Z. D. Blackstone, 14 & H Sts., Washing-
ton, D. C.

For page see List of Advertisers.

Central Floral Co., 105 Wabash Ave.,
Chicago.

RETAIL FLORISTS.—Continued.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

Samuel Murray, 1017 Broadway,
New York.

For page see List of Advertisers.

A. Gude & Bro., 1214 F St.,
Washington, D. C.

For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Rambles.

E. H. Hunt, 76 Wabash Ave., Chicago.
Miss Kate Moulton.

C. H. Totty, Madison, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.

English-Grown Roses.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
Baby Rambles.

For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.

California Rose Co., Los Angeles, Cal.
For page see List of Advertisers.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall Sq., Boston.

Cyclamen Seed.
For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.

For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.

For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.

Forest Tree and Shrub Seeds.
For page see List of Advertisers.

H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.

For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Es-
tab. 1789. High Grade Grass, Clover, and Tree Seeds.

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.

For page see List of Advertisers.

E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

STEAM TRAP.

E. H. Hippard, Youngstown, O.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter.

J. C. Moulner Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORISTS.

Boston.

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Kasting, 388-37 Elliot St., Buf-
falo, N. Y.

WHOLESALE FLORISTS—Continued

Chicago.

For page see List of Advertisers.
 J. A. Budington, 37 Randolph St., Chicago.
 E. L. Hunt, 70-78 Wabash Ave., Chicago.
 Chas. W. McKellar, 51 Wabash Ave., Chicago.
 Peter Reinberg, 51 Wabash Ave., Chicago.
 H. L. Randall Co., 21 Randolph St., Chicago.
 Wood and Rice, 59 Wabash Ave., Chicago.
 Wietor Bros., 51 Wabash Ave., Chicago.
 Vaughan and Sperry, 60 Wabash Ave., Chicago.
 S. F. Waterson Co., 45, 47, 49 Wabash Ave., Chicago.

Cincinnati.

Obble Cut Flower Co., 129 E. 3d St.
 Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
 Michigan Cut Flower Exchange, 38 & 40
 Miami Av. Wm. Dillger, mgr.

New York.

For page see List of Advertisers.
 Bonnot Bros., 55-57 West 26th St., New York.

Ford Bros., 43 West 28th St., New York.
 H. E. Froment, 57 W. 28th St., New York.
 Alex. J. Guttmann, 43 West 26th St.
 E. C. Horan, 55 West 28th St., New York.
 Philip F. Kessler, 55 W. 26th St., New York.
 Julius Lang, 53 West 30th St., New York.
 H. E. Langjahr, 55 W. 28th St., New York.
 James McManus, 50 W. 30th St., New York.
 Chas. Millard, 59 W. 26th St., New York.
 Frank Millard, 55-57 W. 26th St., New York.

John J. Perkins, 115 W. 30th St., New York.
 John I. Raynor, 49 W. 28th St., New York.
 George Salford, 46 W. 29th St., New York.
 W. F. Sheridan, 59 W. 28th St., New York.
 Trendley & Schenck, 44 W. 28th St., New York.

John Young, 51 W. 28th St., New York.

Philadelphia.

For page see List of Advertisers.
 W. J. Baker, 1432 So. Penn. Sq., Philadelphia, Pa.
 W. E. McKissick, 1221 Filbert St., Philadelphia, Pa.
 Leo Niessen Co., 1217 Arch St., Philadelphia, Pa.
 Chas. Pennock, 1612-18 Ludlow St., Philadelphia, Pa.
 Phila. Cut Flower Co., 1516-18 Sansom St., Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
 Pittsburg Cut Flower Co., Ltd., 504
 Liberty St., Pittsburg, Pa.
 J. B. Murdoch & Co., 545 Liberty St., Pittsburg.

New Offers in This Issue.

CARNATIONS, RED LAWSON, MRS.

W. T. OMWAKE.

Henry Eichholz, Waynesboro, Pa.
 For page see List of Advertisers.

CARNATION, WHITE LAWSON.

T. F. Matthews, Ashland St., cor. Mill,
 Dorchester, Mass.

For page see List of Advertisers.

CLAY'S FERTILIZER.

Wm. Elliott & Sons, New York.
 For page see List of Advertisers.

FORCING AND DECORATIVE PLANTS.

Robbink & Atkins, Rutherford, N. J.
 For page see List of Advertisers.

WHOLESALE FLORISTS.

A. L. Young & Co., 54 W. 28th St.,
 New York.

For page see List of Advertisers.

LIST OF PATENTS.

Issued December 5, 1905.

- 806,341 Lawn-Sprinkler, Henry Hamilton, Indianapolis, Ind.
 806,402 Support for Trees, John Donnelly, Branford, Conn.
 806,683 Spade, Noah D. Langford, Lafon, Iowa.

Issued December 12, 1905.

- 806,959. Device for Treating Seeds, William S. Smith, Langdon, N. D.
 807,213. Tree-Protector, Samuel S. Staley and Jos. T. Ward, Philadelphia, Pa.

BUSINESS CHANGES.

The greenhouses of T. W. Long at Charlotte, N. C., have been sold to W. W. Scholtz.

J. B. Braidwood of Colorado Springs, Colo., has opened a new store at 110 North Tejon street.

The Hyde Park Floral Co. has started in business at 822 Congress avenue, Austin, Texas.

Miss Maude Miller has purchased the old Swan Peterson stand at 147 Merchant street, Decatur, Ill.

W. H. Kuebler, wholesale commission florist of Brooklyn, will soon move to 28 Willoughby street.

Frank T. Hazeltine is closing out his business in Crookston, Minn., which has been conducted as the Crookston Nurseries.

The Jubilee Nursery of Winnipeg, Man., Ed. Neberrhein, manager, has opened a down town store at 280 Portage avenue.

The business of the late E. B. Lewis at Lockport, N. Y., will hereafter be conducted by his daughter, Nettie Lewis Oliver.

Miss Lottie Lockhart, with George McLean as manager, has opened a flower store at 11 North Phelps street, Youngstown, O.

The Copeland street greenhouses, Campello, Mass., have been sold to Nicol Bros.—Andrew Nicol of Brookline and Alex. Nicol of Newport.

Max Rasmussen of Negaunee, Mich., has bought the greenhouses of W. J. Miller at Pontiac, Ill. Mr. Miller will try fruit growing in Chadbourn, N. C.

Carl H. Beckhill, formerly with G. M. Kellogg of Pleasant Hill, Mo., will engage in the florist business at Lampeter, Pa., on what is known as the John Fritz estate.

Byrne Bros., Buffalo, have moved from Main street to the corner of West Chippewa street and Delaware avenue, and have opened a branch store on Connecticut street.

John Burke, who some time ago gave up his business in St. Louis and went to California, has returned to that city and expects to locate at the West End at an early date.

E. A. Fettes, formerly of Cleveland is about to open a new store in Detroit. The improvements that are under way will make his establishment one of the finest in the city.

Werrick Bros. of Pine Ridge, have purchased the store and business of C. D. Zimmerman on W. Chippewa street, Buffalo. Mr. Zimmerman retains his greenhouses on the west side.

Dana Herron, Olean, N. Y., has opened a retail store in the basement of Masonic Temple, which with its modern appointments will prove an attractive addition to the uptown business section.

SEED TRADE.

The Toledo Seed Company has recently been incorporated to do business in Toledo, O. They will handle clover, timothy and other seeds. Capital, \$50,000. The incorporators are Herman Phillips, Karl Mathies, Latmer Thompson, U. G. Denman and Charles Friedman.

GREENHOUSES BUILDING AND PROJECTED.

Dalton, Mass.—Fred G. Crane, one house.

Lisbon, Me.—H. W. Blethen, one house.

Ludlow, Vt.—A. A. Baldwin, one house, 15x25.

Cheyenne, Wyo.—Union Pacific Railroad, one house.

Clinton, Ia.—Charles Gallentine, range of houses.

Lenox, Mass.—Morris K. Jesup estate, one house, 80x30.

Davis Bros. have just completed an \$18,000 range of houses at Morrison, Ill., for the forcing of cucumbers, lettuce, ferns and chrysanthemums. It consists of seven houses each 27 x 200, ridge and furrow construction with short span to south. Two longitudinal glass partitions separate the range into three sections. The walls are of two courses of brick with air space between, resting on concrete foundation. In the brick boiler house are two 150 H. P. boilers, with room for one more. Two 8 in. feed pipes carry the steam through the houses in a brick tunnel. Five rows of 1 1/4 in. pipe pass around each house. The chimney is 90 ft. high, octagon in shape. Facilities are supplied for steam-heating all the water used in the houses.

CATALOGUES RECEIVED

H. F. Michell, Philadelphia, seeds, plants and supplies.

Michigan Cut Flower Exchange, Detroit, Mich., issues a neat and comprehensive folder with price list of supplies for the holidays.

We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

WANTS.

EXPERT FERN RAISER and grower of general stock wants position in first-class establishment; 9 years' experience; 24 years old. Address I. R., care Dr. T. Berg, Lynn, Mass.

WANTED—Assistants to take charge of vegetable and fruit gardens; some knowledge of ordinary bedding stuff required. Wages fifty dollars. James Holloway, Doris Park, Glen Cove, N. Y.

GAMEKEEPER—Wants a position, thoroughly understands rearing Fancy Pheasants of all kinds, English Ring Neck, Partridge, Quail, Wild Ducks, Peacocks, and taking charge of estate. Address Care M., 152 East 18th St., New York.

WANTED—Salesman; bright, active man, thoroughly competent for ribbons, supplies and cut flowers. Apply with full particulars as to salary wanted, experience, references, to S. S. Pennock, 1612-1618 Ludlow Street, Philadelphia.

FOR SALE

A first class cut under platform spring wagon, and also a first class top wagon, cut under, French plate glass on side, with a good reliable horse. Will sell cheap after the holidays.

Good for city, country, commercial grower or retail florist's use. CHAS. MILLARD, 50 West 29th St., N. Y.

HORICUM

KILLS SAN JOSE SCALE
 Made by **HAMMOND'S SLUG SHOT WORKS**, Flakill-on-Hudson, N. Y.
 SOLD BY SEED DEALERS OF AMERICA

LUMBER

For Greenhouse Benches

Ship Lap, Drop Siding, Sheathing, Flooring, White Cedar Posts, Etc.

We are in a Special Position to Furnish **"PECKY CYPRESS"**

Everything in PINE and HEMLOCK BUILDING LUMBER
WRITE FOR PRICES

Adam Schillo Lumber Co.

Cor. Weed St. & Hawthorn, CHICAGO
Tel. North 1626 and 1627

GLASS

FACTORIES ARE AGAIN RUNNING
Best prices for direct shipment and from stock

WRITE US BEFORE PLACING ORDERS

Sharp, Partridge & Co.

22d and Union Place, CHICAGO

CYPRESS SASH BARS
32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

GOOD MEN

When you need good men,
skilled or unskilled, write:

THOS. H. BAMBRICK

34 South 7th Street, Philadelphia

Help of all kinds, including that for
Florists, Nurserymen, Seedsmen and the
Horticultural trade generally.

SEND FOR
NEW GREEN HOUSE CATALOGUE
JUST ISSUED BY
King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.
In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
SCOLLY HOT WATER
and **STEAM BOILERS**
JOHN A. SCOLLY
73 and 75 Myrtle Avenue
BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material

Ask for our Special Catalogue No. 534 describing
Renter Tubes, Rollers, Tubes, Saw, Lumber and Sup-
plies of every kind from the Fifty Million Dollar St.
Louis World's Fair.

CHICAGO HOUSE WRECKING CO.
35th and Iron Sts. CHICAGO

CYPRESS WRITE FOR CATALOGUE

GREENHOUSE MATERIAL

JOHN C. MONINGER & Co. 412 to 422 HAWTHORNE AV. CHICAGO

OF EVERY DESCRIPTION

In writing advertisers, mention Horticulture

GURNEY HEATERS

FOR HEATING ANY DESCRIPTION OF BUILDING BY STEAM OR HOT WATER
GURNEY HEATER MANUFACTURING CO.
NEW YORK OFFICE: 111 FIFTH AVE. 74 FRANKLIN ST. BOSTON



Standard Flower .. POTS

If your greenhouses are within 500 miles of
the Capital, write us, we can save you money

W. H. ERNEST.
28th and M Streets WASHINGTON, D. C.

Holds Glass Firmly FULL SIZE No. 2

PEERLESS

Glazing Points are the best.
No rights or lefts. Box of
1,000 points 75 cts. postpaid.
HENRY A. DEER.
714 Chestnut St., Phila., Pa.

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Trademarks and Copyrights

Send your business direct to Washington.
Saves time and insures better service.
Personal attention guaranteed
Twenty-five years' active practice.
SPECIALTY: "Working on the Failures
of Others."

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PATENT LAWYERS
Box 9, National Union Building
Washington, D. C.

PEERLESS REPAIR CLAMP

MADE OF ZINC

HOLD CRACKED GLASS IMMEDIATELY AND PERMANENTLY
For sale by jobbers. Box of 150 for \$1.00 or address
A. KLOKNER, Wauwatosa, Wis.

ROBERT J. DYSART,
Public Accountant and Auditor
Simple methods of correct accounting
especially adapted for florists' use.
Books Balanced and Adjusted
Merchants Bank Building
28 STATE ST., BOSTON
Telephone, Main 58

**NOW IS THE TIME TO INSURE
YOUR GLASS AGAINST DAMAGE
BY HAIL.** For particulars address
John G. Esler, Saddle River, N. J.



The Greenhouse and the Ground Scheme

No longer mere structures of squatty unsightliness (simply necessary adjuncts) the greenhouse becomes in our hands a point of beauty, a harmonious blending with the ground scheme.

This cut shows W. K. Vanderbilt's Palm House at Oakdale, L. I. A central Palm House with hipped dome roof and ornamental vestibule, flanked by two curvilinear wings. Its terraced position and simple approach of steps, complete the distinctness of a well-balanced scheme. The raising of vestibule floor above the main floor of house gives to the interior an uniqueness, permitting, as it does, the looking down upon the mass of palms and rare exotics, giving an effect not only delightful but showing the profusion of the tropics in all their individual beauties.

From the erection of the amateur greenhouse or pretentious range for private estate, to the 700 feet commercial houses, we give the same careful attention, putting into them the skill and knowledge of 50 years of building.

Burnham Hitchings Pierson Company

GREENHOUSE DESIGNERS AND MANUFACTURERS

1133 Broadway Cor. 26th St., New York. Boston Branch, 819 Tremont Bldg.

HORTICULTURE

Vol. II.

DECEMBER 30, 1905

No. 27



SPECIMEN CHRYSANTHEMUMS
At Fairhaven, Mass.

*Devoted to the
FLORIST, PLANTSMAN,
LANDSCAPE GARDENER
and
Kindred Interests*

*Published
EVERY SATURDAY
At 11 Hamilton Place,
BOSTON, MASS.
Subscription, \$1.00*

VICTORY

THE BEST SCARLET CARNATION—Requires only ordinary culture

TWO TRUMPS

PINK PATTEN **THE MIKADO**

Brighter than Lawson

Strictly Fancy

First Class Certificate at
Boston and Tarrytown

First Class Certificate
American Carnation So-
ciety at Chicago

PRICES

Per 100, \$10.00; per 1000, \$80.00; 250 at 1000 rate.

Send for Descriptive Circular

Patten & Co., Tewksbury, Mass.

HANNAH HOBART

The Pride of California. The Grandest of Pink Carnations

A shade deeper than Lawson, blooms four to four and one half inches across, full and regular. Stems long and strong. Does not burst the calyx. Growth free and easy. A prolific bloomer. Its flowers wholesale for a higher price than any other carnation in the San Francisco market. (See illustration and full description in Horticulture of July 1, 1905.) Orders for rooted cuttings booked now and fill in rotation beginning January 1, 1906, at

\$3.00 per 12; \$15.00 per 100; \$120.00 per 1000

JOHN H. SIEVERS & CO.

1251 Chestnut Street SAN FRANCISCO, CAL.

In writing advertisers, mention Horticulture

CARNATIONS

(Rooted Cuttings and Pot Plants.)

Lawson, Enchantress, Lady Bountiful, White Lawson, Fred Burkl, Cardinal, Fiancee and other standard varieties. Also the new scarlet JOHN E. HAINES and the new white MY MARYLAND. Send for price list.

CHRYSANTEMUMS

(Rooted Cuttings.)

Alice Byron, Mrs. McArthur, Lady Harriett, Maud Dean, Marie Liger, Lavender Queen, Robt. Halliday, Col. Appleton, J. C. Salter, \$2.00 per 100; \$15.00 per 1000. White Eaton, Chadwick, Convention Hall, Yellow Chadwick, \$2.50 per 100; \$20.00 per 1000. Also a number of other standard varieties. Send for list.

SAMUEL S. PENNOCK,

The Wholesale Florist of PHILADELPHIA
1612-1618 Ludlow St.

CARNATIONS

All the Best Varieties

J. D. THOMPSON CARNATION CO.
Joliet, Ill.

If you offer the right goods in the right way in these columns, we will not lack for customers.

RED LAWSON The only red Carnation you want. R. C. \$4.00 per 100; unrooted, \$2.00 per 100.

MRS. W. T. OMWAKE. Sport of Enchantress, improved Enchantress, 3 to 4 shades deeper. R. C. \$10.00 per 100; unrooted, \$5.00 per 100. CASH, PLEASE.

HENRY EICHHOLZ, Waynesboro, Pa.



THE MODEL EXTENSION CARNATION SUPPORT

Endorsed by all the leading carnation growers as the best support on the market. Made with 2 or 3 circles. Write for prices and circulars.

We have special low prices to offer and can save you money on

Galvanized Wire ROSE STAKES

Write us for price, before ordering elsewhere. Prompt shipment guaranteed.

IGOE BROS.

226 North 9th Street,
BROOKLYN, N. Y.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

PAEONIES

FESTIVA MAXIMA, largest and best of all paeonies, white.
3-5 eyes \$5.00 per doz. \$35.00 per 100
7-10 " 7.00 " 50.00

RICHARDSON'S RUBRA SUPERBA, brightest red, best keeper, producer and prolific.
3-5 eyes \$3.00 per doz. \$20.00 per 100
7-10 " 4.00 " 30.00

FRANCES ORTEGAL, very deep rich crimson. Large and extremely prolific.
3-5 eyes \$2.00 per doz. \$12.00 per 100
7-10 " 3.00 " 20.00

Good Varieties mixed colors, not truly named \$1.50 per doz. \$9.00 per 100.

CHICAGO CARNATION CO., JOLIET, ILL.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

CARNATIONS

H. A. Stevens' variety Rooted Cuttings
Variegated Lawson
Now Ready. Commenced shipping Dec. 1st. Orders filled in rotation.

HENRY A. STEVENS CO.

East Street, Dedham, Mass.
\$6.00 per 100 \$50.00 per 1000

CHRYSANTEMUM STOCK PLANTS

We must have room. Note our prices. Large, strong roots. 75c. per doz. \$4.00 per 100. \$1.00 per doz. \$5.00 per 100. 25c. each.

Polly Rose
Glory of the Pacific
Robt. Halliday
Ivory
Willow Brook
John K. Shaw
Maj. Bonaffon
Col. D. Appleton
Wm. Duckham

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Intensity
Dr. Enguehard
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Geo. W. Childs
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J. H. Doyle
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CONTENTS OF THIS ISSUE

	Page		Page
FRONTISPIECE—Specimen Chrysanthemums		CUT FLOWER AND PLANT MARKET RE-	
THE AMERICAN BEAUTY—Wm. Scott.....	703	PORTS—(Continued)	
THE POINSETTIA—F. W. Ball.....	703	Boston, New York, Philadelphia.....	713
RHODODENDRONS—George Moore.....	704	Miscellaneous Notes.....	711
A ROSE HOUSE REVERIE—R. T. McGorum.....	705	SEED TRADE NOTES.....	718
BRITISH HORTICULTURE—W. H. Adsett....	705	Catalogues Received.....	718
EDITORIAL	706	MISCELLANEOUS	
AFTER ADJOURNMENT.....	707	Chrysanthemum Garza—Illustration.....	707
WHAT THEY SAY OF US.....	707	Personal	707
NEWS OF THE CLUBS AND SOCIETIES		Don't	707
Newport Horticultural Society.....	708	Our Frontispiece.....	707
Toledo Florists' Club.....	708	Cypripedium insigne.....	707
American Carnation Society.....	708	Obituary	707
PLANT GROUP AT LENOX, MASS.—Illus-		Publications Received.....	710
tration	708	Philadelphia Notes.....	711
BANQUET TO THEODORE WIRTH.....	708	Fire Record.....	718
CUT FLOWER AND PLANT MARKET		List of Patents.....	718
REPORTS		Business Changes.....	718
Cincinnati, Montreal, Newport, Toledo.....	710	Greenhouses Building and Projected.....	718
		Pacific Coast Notes.....	718

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The American Beauty

SOME IMPORTANT POINTS IN MID-WINTER CULTURE

The keeping qualities of flowers from disbudded wood as compared with those that have not been disbudded has been sometimes questioned. In my opinion there should be no difference for if the wood is so hard that it will not draw up water it is too hard to make a good bud. The wood is soft at time of disbudding and the terminal shoot generally sprouts from the first eye at the top, grows sometimes as long as twelve to sixteen inches before forming bud, and makes a good flower. Of course the point to be borne in mind is to keep the wood in good growing condition.

One of the objects in disbudding Beauties is to keep plenty of wood on the plants and by so doing you can always get them to give strong breaks from the bottom of the plants something which is hard to do if one lets them harden up. A most important factor is the watering. Always see that the plants do not suffer for lack of water at the roots; even if the benches (if raised) look wet enough on top, dig down and see how they are at the bottom. I find a good way to keep Beauties in good growing condition at this season of the year when heat is running steady, is to give them what I call a dampening down; not a syringe over all the plants but a dampening through the bottom or lower part of them, say a foot or sixteen inches from the soil and to wet down the paths and under the benches three or four times a week, always before noon, and especially at the ends or where the main heating pipe comes through the houses. By so doing a genial moisture is obtained in the houses. This, with plenty of ventilation on in such weather as we have been having this fall, will always keep the plants in good growing condition and the product will give no occasion for any doubt whatever as regards their good keeping qualities.

At this season, too, I find that Beauties are inclined to run up as far as eight or nine feet before setting bud and in low houses or benches near the glass this gives much extra work in tying down. Take them down and run each stem to the third or fourth plant a foot or so above the bottom, then bend them up and tie as usual and they will make bud sooner than left as before.

Propagating should have been commenced before now. I always like to have a first batch rooted by the first of January or before. I use short-jointed wood, not necessarily flowering wood, but good clean wood, for this purpose and always get good results. Of course there is much to be considered under this heading and I will endeavor to find time in the near future to say something more on this important topic. I wish HORTICULTURE and its readers every success and a very Merry Christmas and a Happy New Year!

Wm Scott

Morton Grove, Ill.

Poinsettias

HOW TO CARE FOR THEM AFTER CUTTING

At one store where the writer visited, he noticed a lot of poinsettias that had been sadly mistreated, entailing quite a loss on the buyer. They were badly wilted and the stems broken down by their own weight. Poinsettia heads should be cared for the moment they are cut. They must not be allowed to bleed as this will weaken their stem and cause them to wilt. Cotton will prevent this to a certain extent but a much better way is to dip the stem in hot sealing wax at once. Before sending them to the market keep them for at least twelve hours in a large flat box thoroughly lined with wet paper and well-sprinkled. Water will not injure poinsettias. Keep them in a cool, not cold, place and they will stiffen up nicely and remain in good condition for a week or more. Cut poinsettias will absorb more water through the foliage than through the stem. It is almost useless to place them in water as the milk forms a gummy substance which prevents the water from flowing up the stem.

If they are to be used for a decoration they should be cut at least forty-eight hours before they are wanted and sprinkled daily. Then when the test for endurance comes they will hold up their heads in a satisfactory manner. Store men should try keeping them in their windows or some cool part of the store as a majority of the refrigerators are kept at too low a temperature for poinsettias.

Frank W. Ball

Cincinnati, O.

Orchids for Commercial Purposes

Cypripedium insigne, although one of the oldest in this family, is regarded as the best all-round commercial cypripedium. Its culture is not so complex as that of the hybrid cypripediums.

Celogyne cristata is another orchid especially adapted to commercial purposes, flowering from January to March.

Cattleya is the great commercial flower and is in great demand at all times. *C. labiata* perhaps is the most popular, flowering in the fall of the year. An indispensable variety is *Cattleya Percivaliana*; although throwing flowers of less size than the *labiata*, it more than makes up in the coloring. This is followed by *Cattleya Trianae*. The above named are the most useful for marketing and can be grown in a temperature of 60 degrees. Care and judgment in watering on dull days are essential to the well-being of these plants.

Cattleyas may be grown in pots or baskets; personally I prefer baskets, using the best selected orchid peat and charcoal. I use principally clinkers as a foundation; these insuring perfect drainage. As every man must be the architect of his own fortune, so it is with orchid growing, no two men carrying out the same ideas for the end—success.

J. T. Butternorth

Rhododendrons

It is gratifying to learn that a representative of a great firm of rhododendron growers is to visit Boston annually in the interests of this magnificent hardy shrub, especially as it is proposed to promote such as might be most likely to stand the climate and to use the native, maximum, which is at home in New England, as a parent from which to raise high-colored varieties. Bright colors are, of course, a desideration in all outdoor plants, notwithstanding the beauty of pure white, delicate rose, pink or rosy purple which are prominent in all the hardy species of rhododendrons.

The reason the brilliant colors are more scarce is that they are found only in the Indian species, *R. arboreum*, which will not bear a cold climate, and so, unfortunately, when used as parents upon the *R. Catawbiense* which is hardy, they impart tenderness to their offspring, a fault which it has been very difficult to overcome. Therefore the efforts of Messrs. Waterer to raise a more hardy race of bright colored varieties by infusing into them the blood of the *R. maximum*, which I have no doubt they will succeed in doing eventually by a judicious system of crossing and selection, will be the means of raising this already popular class to a yet higher place in the estimation of the lovers of the beautiful.

If the stock of a grafted plant has any influence upon the growth or vigor of the tree, I do not see any reason why the hardness of a rhododendron should not be improved by being worked upon *R. maximum* stock. I remember, a good many years ago, having some conversation with the late C. M. Hovey on this subject and he told me that he could not get grafted rhododendrons which were imported to stand the winter; that the stocks or stems were first affected by the cold. I thought I saw the cause, namely, that they had been grafted upon the *R. ponticum*, an Asiatic species which is hardy in England, and is the most easily grown of any variety, hence is used largely in that country as undergrowth for game preserves, and being of a more succulent habit than any other is the easiest stock to work other choice sorts upon, and as it is not killed by the British climate answers the purpose well, whereas that might not be the case when the shrubs are exported to a colder latitude.

It is not only cold that kills rhododendrons but want of knowledge on the part of the inexperienced as to their culture. In the first place they should be given a fair chance by planting them in a favorable situation sheltered from the northeast and exposed to the genial influences of the southwest. Choose for them a site with a cool, moist subsoil and peat formation.

All the natural order of Ericaceae, to which the rhododendrons belong, derive their nourishment from decaying vegetable fibre, of which what is commonly called peat or bog earth is composed. This contains carbon and phosphoric acid which they delight in, while they do not assimilate much with nitrogen, hence animal manure is not congenial to them. I once killed some valuable specimens by watering them with liquid from the barnyard. If the nature of your soil is not of the quality described your rhododendron bed should be made so artificially by carting some bog soil and mixing it with a small quantity of sand to keep it porous. If the spring should be very dry a good watering may be necessary, otherwise no further attention will be required. Do not prune the rhododendrons nor break off large branches for house decoration. Do not plant too thickly but give each specimen a chance to develop

individually, and its beautifully symmetrical proportions will be a charm.

Rhododendrons, having fibrous roots only, can be removed at any season except in the depth of winter or while they are forming new growth, until this has ripened, after which removal will not injure them. This enables the great English growers to hold the magnificent rhododendron exhibitions which are among the grandest horticultural sights of Great Britain. I remember, too, that the munificent H. H. Hunnewell held one for the public in some large tents on Boston Common, and it is a pity that his noble example cannot be repeated either by a private individual or under the auspices of the great Massachusetts Horticultural Society. Cut blooms of rhododendrons give but a limited idea of their beauty while growing, and when artistically arranged under canvas tents the subdued light enhances their beautiful tints and they last much longer in bloom. It is true that Mr. Hunnewell's successors and Professor Sargent generously throw their grounds open to the public during the rhododendron season, which is a great public benefaction, but if a display could be made under tents in the city thousands would enjoy the privilege of seeing them where only hundreds do now.

Every well-arranged pleasure ground should have its group of rhododendrons. Beside the large-foliaged species there are several others which are very interesting. *R. dahuricum* or *atrovirens* is a small-leaved, slender-stemmed one with dark green, glossy leaves and purple flowers. *R. hirsutum* is a very dwarf species with small leaves, quite hairy, pale green and dense; the flowers are light rosy purple. Of this there is also a variegated variety, *R. ferrugineum*, of larger growth than the latter with dark green shining leaves on the upper surface and rusty at the back or under side. These all are beautiful objects in small gardens, but if some clever pollinator would take hold of them and cross them with the larger species it is possible that a new and interesting class with various colored flowers might be produced which would be very useful where space is an object.

Even if I shall be thought egotistical I will venture on a little bit of personal history. When I was a very young man I was passionately in love—with rhododendrons—and assisted by a near neighbor, a most enthusiastic hybridist, Mr. John Willmore, the raiser of the even now favorite, *Erica Willmoreana*, I, or rather we, tried our skill upon rhododendrons. We crossed the Indian species with the American and Asiatic with remarkable results. We got a race of hardy varieties with the characteristics of both. I had a nursery near Mr. Willmore's and so the crossing was done at his place but my father and I grew the seed and flowers. The plants, one variety of which had all the qualities of *Catawbiense* with flower of deep, rosy carmine and throat pencilled and spotted with crimson and black was named for us, Moorei. I took this with fifteen others to the Royal Botanic Society's exhibition and received a first class certificate. At that time, about the year 1860, I had a good many thousands of rhododendrons, but, alas! I lost them all in one dreadful night. One Christmas Eve the mercury fell to 15 degrees below zero, not even a frost previously, and the cold killed all my stock. We do not think much of 15 below here, but in England such a low temperature, especially after a warm season, on account of the greater humidity of the atmosphere, is most disastrous. On this occasion which was most unprecedented, oak trees which were full of sap were killed by bursting, and fissures several inches deep were

made in them. The next summer they all died and thousands in the neighborhood had to be cut down. Bay trees grew in the dooryards of most laborers' cottages, some of them more than 100 years old, and all were destroyed. I have occasion to remember this disaster for it caused me to pull up stakes and cross the briny brook, a step which I never regretted, for I found Uncle Sam a first-rate foster father for my family.

Geo. Moore

A Rose House Reverie

"Musing alone by the fire-light dim,
With the evening shadows stealing in,
It seems to me like a living thing—
Telling of days gone by."

In a recent issue of *HORTICULTURE* I read an article about a young woman horticulturist in England having gone into business and making a decided success. We have heard lately much about college graduates and things in general in that line, but one doesn't very often see a lady doing practical work in the green house line. I remember, seven years ago, while visiting the Royal Botanic Gardens, Edinburgh, seeing some up-to-date young ladies filling their positions in a practical manner. It was certainly a surprise to me and it was then an oddity. They were watering the plants, handling the watering can like an expert, but one had to look closer to know which sex they belonged to. The directors, I was told, didn't wish to be bothered "wi' lasses" and put a clause in the agreement to the effect that before receiving an appointment they were to dress becoming to their work, lay aside their dresses, don bloomers, and wear their hair high enough so that a cap would completely hide their tresses. I was told that two of the number (I think there were six altogether) dropped out as they considered the demand obnoxious.

The innovation was discouraged somewhat by the populace, but the young ladies arrived on time every morning, going into the room allotted to them and getting into their working rig. I often have wondered how one of them would stand the summer work in a rose house. Ladies are very effusive on entering a rose house in winter, telling of the joys, and heavenly surroundings, but in the heat of summer, it would be for the girl graduate exit bloomers, dresses and all.

Last summer while standing on the wharf at Grenock I had an object lesson on handling roses. A young man came down from Glasgow on the same train. Getting off at Grenock, he seized a basket and started on a rush for the wharf where there awaited him some half dozen boys with basket trays in front of them suspended by a strap over the shoulders. The roses were dumped into the tray like so much hay thrown before a horse, the boys running among the crowd shouting "Roses! roses! tuppence each; buy one for your lady." The growers on the other side have much to learn in regard to handling and packing roses. The man who has a love for flowers can't stand and see them roughly handled without having a shudder and a feeling of regret that all people can't appreciate the beauty of nature.

Robert Morrison

British Horticulture

BRITISH COLUMBIAN FRUIT.

A notable feature at the Colonial show organized this week by the Royal Horticultural Society was the magnificent display of apples from British Columbia. From a conversation I had with Mr. R. M. Palmer, who was in charge of the exhibit I learned that special efforts are being made by the British Columbian growers, backed by the government of the province, to capture a share of the two million pounds a year Britishers pay for imported apples.

To suit the requirements of the British market, I gathered that it is intended to grow large quantities of Blenheims and Cox's Orange Pippin, which are favorite varieties here. The Royal Horticultural Society granted a gold medal for the general display, besides silver medals to individual exhibitors. Since the show, through the courtesy of the Agent-General, I have been able to sample some of the apples, which were beautifully colored and of a delicious flavor.

THE RAISER OF FRAMFIELD PINK

During a quiet time at the National Chrysanthemum Society's December show I had an interesting chat with Mr. Norman Davis, the well known chrysanthemum raiser, far-famed for Framfield Pink and other useful varieties he has put in commerce. For nearly 40 years Mr. Davis has been a "mummer," and he is one of the pioneers of the National Society. Many of the chief British and Continental novelties have passed through his hands. In fact he has introduced about 2000 new varieties. Mr. Davis considers his best latest novelty is a Japanese exhibition variety, British Empire, which has been raised at Framfield. This belongs to the reflexed section, and is of an orange yellow tint, overlaid and tinted with reddish brown. This has been certificated by the R. H. S. and N. C. C. He is also very proud of one named after himself. This is of brilliant chestnut and bright gold, and is regarded as an improvement on Henry Perkins. Mrs. Hooper Pearson is another showy bloom, of a lemon yellow tint, shaded with chestnut. At the December show Mr. Davis gained a certificate for Mrs. Geo. Beech. This is a golden sport from Mrs. Swinburne, raised by Mr. Weekes. It was a curious coincidence that Mr. H. J. Jones of Lewisham should have gained a certificate at the same show for the last named. The new sport is a splendid bloom for decorative work, and it has been greatly admired at Covent Garden market, where Mr. Davis was able to secure for it the satisfactory price of 10s. a dozen blooms.

W. H. Adsett.

London, Eng., Dec. 9th, '05.

HORTICULTURE

AN ILLUSTRATED JOURNAL

DEVOTED TO THE

FLORIST, PLANTSMAN, LANDSCAPE
GARDENER AND KINDRED
INTERESTS

HORTICULTURE PUBLISHING CO.

11 HAMILTON PLACE, BOSTON, MASS.

Telephone, Oxford 292.

WM. J. STEWART, *Editor and Manager.*

The
key to
success

HORTICULTURE extends best wishes for a Happy New Year and hopes that prosperity may continue with all who have enjoyed it during the old year, that it may come in full measure to those whom it has hitherto neglected, and that, when the story of 1906 shall have been written, it will tell of a year of unprecedented development in the science and practice of horticulture in each and every department. When horticulture flourishes it stands as the effect and the cause of prosperous, comfortable, and happy existence for the people of every class. It is a good sign of a community when it has the time and the disposition to give to flowers, fruit and garden and when it has come to regard these things as among the necessities of a contented and well ordered home. Upon the strengthening of this sentiment depends the measure of advancement and good fortune that may come to the florist, the seedsman or nurseryman.

The
attitude of
the "Boston people"

We do not believe that our esteemed New York contemporary would willingly be accessory to the incitement of any sentiments derogatory to Boston's good name and fame and fully appreciate its frankness in acknowledging that its recent editorial purporting to give the views of "the Boston people" was based upon nothing more serious than the affirmations found in the correspondence of a contemporary. The thing now dwindles down to this: that "the Boston people" in question comprised the correspondent of a western paper and his vague "number of prominent Boston horticulturists" together with our contemporary's own correspondent and his "several prominent members." We do not hesitate to say that the S. A. F. or any other body visiting Boston with good intent will receive all due courtesy and, further, that when such organization has any proposition to make or plans to discuss, the Boston organizations and the Boston people, including "prominent horticulturists," on being apprised thereof through the proper channels, will be found

ready to respond and we think we are very safe in promising that the response will be of a very different character from that which our contemporary was led to believe.

Help
one another

Our reading columns this week impart some useful information relative to the great holiday plant and flower trade. The summing up of it all is that the business done was unprecedented as to volume. A better gauge of the general prosperity which our people are enjoying, from the Atlantic to the Pacific, it would be hard to find. While congratulating ourselves on the splendid support accorded to our industries by the public it is in order to consider how this may be continued and strengthened and how the service rendered may be improved. A step in the right direction is the article contributed for this issue on the proper care of that prime Christmas favorite—the poinsettia—in cut state. No doubt the advice therein given will be welcomed by many of our readers who have been embarrassed and disconcerted by the apparent untrustworthiness of the poinsettia at a critical time. These practical contributions are at all times welcome and we hope our readers will make free use of our columns to impart and receive helpful suggestions on these lines.

The
highest bidder
versus
the steady customer

One of our correspondents, in describing Christmas conditions writes that "if roses and carnations could have been sold to the highest bidder they would have brought unheard-of prices."

This touches upon a well-known issue between wholesale and retail dealers and growers. "Why not sell to the highest bidder?" is the query, difficult to satisfactorily answer, which the grower is liable to put to the commission dealer entrusted with the sale of his product. It should be kept in mind that the dependence of the retail dealer upon the grower in times of famine is no more marked than the dependence of the grower upon the retailer during those extended periods of stagnation when too much material is produced for the home market and an outlet must be found for the surplus. Is it too much to say on behalf of the buyer who makes an effort to help unload the burden at such times that he is entitled to some consideration when conditions are reversed and the patron becomes the suppliant? The transient buyer who shows up at holiday time with a call for the cream of the stock and is never again heard from until another holiday comes around should pay prices accordingly and, furthermore, should not complain if his orders are laid on the table until the customer who stood in the breach when a customer was sorely needed is accommodated and at prices not necessarily those of the highest bidder. This is not philanthropy but a plain business procedure which may safely be left to the experienced judgment of the wholesaler, for he is in the best position to decide as to what course is most conducive to his own and his growers' future welfare.

AFTER ADJOURNMENT.

For the gardener or florist, be he learner or expert, nothing is more essential today than good reading, if he would hold a dominating position in his profession. Realizing this and responsive to the oft-expressed wish of the craft, HORTICULTURE'S intention is to provide its patrons with the best reading matter obtainable. If you have in mind any topic on which you desire more light, write and let us know and we shall endeavor to meet the want.

The reporters for the daily press are as crazy as ever for sensational yarns concerning the florist and his trade.

"Fire in each eye, and papers in each hand. They rave, recite, and madden round the land."

Yarn follows yarn in quick succession; the sale of a "flower market" in New York for \$750,000; the refusal of \$15,000 bonus for a lease, by a Hartford florist; and now the sale of another carnation for \$40,000. What next? Hand it out to them in blocks of hundred thousands, gentlemen. They'll swallow it, just the same

WHAT THEY SAY OF US.

December 7, 1905.

Congratulations on year's work. May HORTICULTURE live long and prosper.
A SUBSCRIBER.

Dec. 20, 1905.

Please find enclosed \$1.00 for my subscription to your paper. It has come to stay, and I wish you every success.—J. G.

Inclosed find postoffice order for \$1 for one year's subscription for HORTICULTURE. I think it is a very valuable paper to the trade and predict a great future for it.—W. S.

Nov. 20, 1905.

Horticulture Publishing Co., Boston, Mass.

Gentlemen:—Can you supply me with a complete file of Horticulture up to date? Your paper grows more and more valuable and very rapidly. I want to bind and keep the issues intact.
Very truly yours, *

Dec. 15, 1905.

Editor of HORTICULTURE—Inclosed please find \$1.00 for HORTICULTURE for 1906. I think it improves with age like good old wine, and trust its future will be bright and prosperous and a help to all interested in the gardening world.

Yours truly,

W. S.

CARNATION WINSOR.

This beautiful variety which will be disseminated in 1907 by F. R. Pierson Company is intermediate in color between Lawson and Enchantress, a light silvery pink which will be in great demand. The habit of the plant leaves little to be desired. It is a free bloomer with stem as long as Lawson, but less brittle and a perfect calyx. Messrs Pierson invite carnation growers to come and see Winsor growing and see for themselves its good qualities.



CHRYSANTHEMUM GARZA

PERSONAL.

Herbert Heller, of the South Park Floral Co., New Castle, Ind., is ill at the Martinsville sanitarium.

Archibald Small and Miss Rosalie Groves were married on Saturday, December 23, at the Church of the Epiphany, Washington, D. C.

Dr. Daniel Trembley McDougal of New York has accepted the appointment as director of the newly created department of botanical research, established by the Carnegie Institution, Washington, D. C. Dr. McDougal resigns as assistant director of the New York Botanical Gardens to accept the position.

DON'T.

Don't let freezias suffer for light or water.

Don't let red spider get a foot-hold. Secure a moist atmosphere by frequent syringing.

Don't bake your palms. Health and vigor and wearing qualities are not found in a high temperature.

Don't keep the hydrangeas in the cellar any longer. Bring them out to light and air, and give them a start at about 50 to 55 degrees.

Don't let green fly get the upper hold on the lilies. Now is the time to nip them in their infancy. Get rid of them before the buds form, or they will prove costly visitors.

Don't neglect to feed the carnations now. The vigorous growth that sets in early in the year must have abundant stimulant in the way of fertilizer, water and fresh air. Give it to them.

OUR FRONTPIECE.

We present as a frontispiece this week, a view of a 65-ft. house in which the centre bed is occupied by twelve specimen exhibition chrysanthemum plants, grown by James Garthly, and a special attraction of the H. H. Rogers conservatories, when they were thrown open to the public on Nov. 8 to 11. The show was visited by over three thousand people.

The illustration on this page shows one plant of the set—a specimen of the anemone-flowered variety Garza. This plant was five feet across.

CYPRIPEDIUM INSIGNE.

A. Herrington has blooming at the present time probably the finest lot of Cypripedium insigne ever seen in this country. The plants are of the old variety Sylhetense, which is most commonly grown for cutting, the claims to especial notice being the enormous size of the flowers and the length of the stems, which measure, on an average, about eighteen inches. Mr. Herrington will cut in the neighborhood of 10,000 flowers this season. These results are due to the giving of a few more degrees of heat after the buds have started out about three inches from the growth. Immediately after they are fully developed they are given a cool temperature and gradually hardened off for sale.

There are at this place also large numbers of C. Leeaunum, some of which carry 20 to 30 flowers each.

OBITUARY.

D. H. Patty of Geneva, N. Y., died suddenly on December 11, aged 54 years. He is survived by a wife and one daughter.

F. D. Shaw, proprietor of the Newtownville Avenue Greenhouses, died on December 9 of pneumonia, after an illness of one week.

NEWS OF THE CLUBS AND SOCIETIES

NEWPORT HORTICULTURAL SOCIETY.

A largely attended meeting of the Newport Horticultural Society was held Wednesday evening, Dec. 20. When the new officers had been installed and some other routine business transacted, Col. A. K. McMahon, in a well-prepared address, traced the progress of the Society from its institution in 1890, to the present day. From very small beginnings this Society had developed into an organization of much importance, not only locally, but nationally. There had been times when discouraging prospects threatened to engulf it, but on such occasions it arose stronger than before for the work ahead. On one occasion, when the affairs of the Society seemed enveloped in gloom, the meeting of the Society of American Florists in Providence, and incidentally their visit and reception in Newport, gave to the members new hope and fresh stimulus for renewed activity—a fact that should not be lost sight of by the S. A. F., if an opportunity such as was here offered, again presents itself when the location of meeting is under discussion. The membership has increased from fifty in the first year to upwards of two hundred at present.

The address was well received, and a vote of thanks accorded Col. McMahon. At the close of the address refreshments were served in social session. A very enjoyable evening was spent.

TOLEDO FLORISTS' CLUB.

At the last meeting of this club, held on Wednesday, Dec. 20, it was decided to rent the same club rooms for another year, with the privilege of getting the large dining room once every three months. This once is to be a special meeting, connected with an exhibition on a small scale open to the public. Much good is expected from it. Messrs. Krueger and E. Kuhnke are on the exhibition committee. The first exhibition meeting is to be the third Wednesday in March.

AMERICAN CARNATION SOCIETY.

Carnations Registered.

By The F. R. Pierson Co., Tarrytown-on-Hudson, N. Y.: Helen M. Gould—A variegated sport from Enchantress, equal in size, and having a dark variegation—deep pink with darker markings. While on close observation, this variety is a variegated variety, the general effect is one beautiful tone of dark pink.

White Enchantress—Previously registered.

Winsor—Light silvery pink, intermediate in color between Lawson and Enchantress, grand habit, splendid stem, calyx that never bursts, and a color that will make it in great demand. It is a trifle larger than Lawson, with just as stiff a stem, but less brittle, and is a magnificent grower.

ALBERT M. HERR.

Lancaster, Pa.



FIRST PRIZE PLANT GROUP
At Lenox, Mass., Exhibition

FAREWELL BANQUET TO THEODORE WIRTH.

Friday evening, December 22, will long be remembered as a notable date by the thirty-five gentlemen who gathered at the Hotel Heublein, Hartford, Conn., to say good bye and wish God-speed to their friend, Superintendent Wirth of Hartford parks, who goes to assume charge of the park department of Minneapolis, Minn., on January 1. It was a very happy yet rather sad occasion, for each individual felt that he was losing the companionship and association of a much-esteemed friend and that Hartford and, indeed, all New England were sustaining a severe loss in the going away of this man who in the ten years he has been with us has so strongly impressed his enterprising and progressive personality on all with whom he has been officially connected

and left in the splendid system of parks which he has done so much to build, a monument of enduring lustre. These thoughts were the burden of the addresses made at the banquet given in his honor and his efficiency, loyalty, honesty and inspiring industry furnished the theme for many kindly appreciative words—words that, as the toast-master aptly said, are so much better uttered while the man is alive than kept till after he is dead as is too often the case. President J. F. Huss, of the Hartford Florists' Club presided over the banquet and after seeing that every guest had been well-filled turned over the oratorical section of the program to President A. C. Sternberg of the Connecticut Horticultural Society who is a veteran in the duties of toast-master and in his introductory remarks made an eloquent presentation of the objects of the

DREER'S PLANTS FOR FORCING



The Baby Rambler

Fine imported two-year old English-grown stock, \$3.50 per doz.; \$25.00 per 100. Also an extra fine lot of heavy plants in 3-inch pots \$2.00 per doz.; \$15.00 per 100.

Rose, Killarney

Strong two-year old budded plants, Irish grown, \$4.00 per doz.; \$30.00 per 100.

Azalea Mollis

For early and late forcing Azalea Mollis is rapidly gaining favor. Easily forced a minimum cost for heat and labor, they are profitable stock for the retailer to handle. We are supplying at present an unusually fine grade of plants, 15 to 18 inches high and covered with flower buds, \$4.50 per dozen; \$35.00 per 100.

Deutzias for Forcing

Strong two-year old field grown plants, suitable for 6-inch pots:
Gracilis: \$. 75 per doz.; \$6.00 per 100 Gracilis Rosea: \$1.00 per doz.; \$8.00 per 100
Gracilis Lemoinei: \$1.00 per doz.; \$8.00 per 100

Forcing Lilacs

A fine lot of pot-grown plants, well set with buds and in prime condition for forcing, \$6.00 per dozen; \$45.00 per 100.

Rhododendrons for Forcing

These are being used more extensively every season, and this year with Easter at such a late date should prove especially acceptable, as they can be retarded much easier than Azaleas and at the same time may be flowered at just the right moment at a minimum cost. We are carrying an extra large stock of bushy well shaped plants, covered with buds, 20 to 24 inches high, \$1.00 each; \$11.00 per doz.; \$90.00 per 100.

Crimson Rambler Roses

A grand lot of two-year old extra heavy plants, the finest we have ever offered, just right for putting into 6 and 7 inch pots, either for Easter flowering or spring sales; a very select stock, \$2.00 per doz.; \$15.00 per 100.

The New White Rose, Frau Karl Druschki

This is really the first White Hybrid Perpetual Rose introduced, snow white in color of perfect form and remarkably free flowering. You will not make a mistake in including at least a trial lot with your Easter flowering stock, \$3.00 per doz.; \$25.00 per 100.

Pink and White Maman Cochet Roses

We have a fine lot of strong field-grown plants suitable for potting up into 5 and 6 in. pots, which will make fine stock for retailing in spring, \$1.25 per doz.; \$10.00 per 100.

For a Complete List of Seasonable Stock see our Current Wholesale List.

HENRY A. DREER,

714 Chestnut St.,

PHILADELPHIA.

A CARNATION

which has no rival

White Lawson

Rooted Cuttings Now Ready. \$4.50 per 100; \$40.00 per 1000. From the stock which won the Music Hall Market Prize at Boston last spring.

T. F. MATTHEWS,

Ashland St., Cor. Mill, Dorchester, Mass.

HORTICULTURE

Reaches the Readers

Who Buy

Make Note of It.

gathering. The speakers as severally called upon were Wm. J. Stewart, of Boston, who gave Mr. Wirth credit for having advanced the cause of the rose, particularly, more than any other man in this country within the last quarter of a century; Jackson Dawson of Boston who predicted that Mr. Wirth would carry to Minneapolis a full measure of the best eastern thought and achievement in park work; G. X. Amrhy of New Haven who spoke of his long personal association with Mr. Wirth; G. A. Parker who gave to Hartford the credit of having, in the year 1851, initiated the first park constructive work in the United States; Robert Schriener and C. N. Ruedlinger who spoke feelingly of their warm friendship for the guest of the even-

ing; Messrs. Peard and Pease who expressed the regrets of the bowling contingent; and Engineer Orrin Clark who spoke for the employees of the park department and declared that Mr. Wirth was actuated by the same aggressive sincerity in building a park or bowling a game. President Huss then took the floor and referred feelingly to his many years of close friendship with Mr. Wirth, told how the Florists' Club founded by Mr. Wirth had been made a success by his magnetic influence and then, lest he might lose his way in the wild west, presented him on behalf of the Hartford Florists' Club, the Bowling Club and the Park Employees, with a handsome magnetic compass mounted in a gold case.

Mr. Wirth responded in words of grateful appreciation. He disclaimed

especial credit for his work in the Hartford parks and said that the honor was due as much to the efficiency and earnestness of his assistants, from foreman down and further that no park board in the United States is so well-organized as that of Hartford, the members of which are influenced by no considerations other than to serve the best interests of their beautiful city. He said that the main inducement at Minneapolis was the opportunity for creative work for which he longed, and that he knew his successor in Hartford, Mr. G. A. Parker would be found to be the right man in the right place.

The Ohio State Horticultural Society will hold its thirty-ninth annual meeting in the Board of Trade Auditorium, Columbus, January 10, 11, 12, 1906.

Cut Flower and Plant Market Reports.

A week or more of CINCINNATI dark rainy weather just preceding Christmas has had a telling effect on the supply of cut flowers especially roses and carnations. As it was, the Christmas trade was very satisfactory, the only difficulty being to get enough stock to do business with. There were a great many flowers in town but one could see but little stock at the commission houses at any one time. Only those who placed their orders in advance could get nearly what they wanted. If roses and carnations could have been sold to the highest bidder they would have brought unheard of prices. Beauties were especially scarce, very few being grown here. There is usually a lot of narcissus, Roman hyacinths and lily of the valley left over but it was not so this year; even second-grade stock went. The quality of the stock was a trifle above the average. Our growers have finally learned that it doesn't pay to pickle stock for the holidays.

The out-of-town demand was also very good, and a large number of orders had to be turned down. The call for flowering plants was greater than ever before, begonias and azaleas being in the lead. J. A. Peterson's several houses of Lorraine and Turnford Hall begonias were all disposed of, many going to other markets.

In the downtown district the retail men took great pride in the artistic arrangement of the interior of their stores as well as in their window displays. Christmas coming on Monday made the delivery of orders less difficult, as about one-third of them were wanted for Sunday. Everything had to be well wrapped. The weather was ideal, being clear and cold.

Greens sold fairly well. Holly wreaths could be had on the streets at almost any price, but a well-made wreath of choice holly with the addition of a bell or a bit of bright colored ribbon can still be sold at a profit. The Sixth Street flower market presented a dismal appearance on Saturday afternoon and evening. There were but few growers there and these could have gotten more for their stock by wholesaling it.

The florists here are in MONTREAL very good humor at present, having done a record business for the Christmas season. The wonder is, where all the florists went. The weather was very mild, and plants in some instances were even delivered uncovered. There was a big run of cut flowers on Christmas morning, and prices held very good. Stores are very prettily decorated, red being the prevailing color. Poinsettias, azaleas and Boston ferns led in popularity.

Every indication pointed NEWPORT to a good Christmas trade, and now there is every reason to believe that a larger amount of business was done this year than ever before. The weather favored buyers, and it favored the dealers also in many ways. Flower stock was not over-plentiful in any line. Holly was in over-supply, and dropped from \$5 to \$1 per case. Roses were of good quality, and sold for better prices than



FANCY OR DAGGER

CROWN FERN CO.

FERNS

No. 1 STOCK,
only 75c per 1000
Brilliant bronze or green
75c per 1000

Use our laurel festooning for your Decorations. It gives the best satisfaction of any decorative green at this time of the year. Sample lot on application, we make it daily, gathered fresh from the woods. Hand made, full sizes, 4c, 6c and 6c per yard. Once used, always used. Branch Laurel, 35c per large bundle. Princess Pine by the pound or made into festooning when desired.

CROWN FERN CO., MILLINGTON, MASS.

last year. Carnations were in great demand at a good price for every variety in stock. Violets were neither much in evidence or in demand. Poinsettias, Lorraine begonias and ferns were most asked for in plants. Poinsettias were not well represented as to quality, but they were picked up just the same. Nephrolepis Scotti sold readily at good prices for not very good plants. N. Piersoni and elegantissima were not offered in as great numbers as one would suppose. I think that probably the reason is that because of their complete decorativeness they are thought delicate, which they are not. Their time is coming, however. The major part of the stock sold came from Boston and New York, some from Philadelphia (plants), with odds and ends supplied by local growers. Jurgens, as usual, shipped the most of his output to Boston.

TOLEDO The florists did a good business during Christmas week, but how much better it was this season cannot be said yet. Carnations were very scarce, but all other flowers were sufficient. Poinsettias were extra good and sold well. The week started with dull weather, followed all Wednesday by rain. Thursday was dull, too, but Friday and Saturday were fair and plants did not need much wrapping.

PUBLICATIONS RECEIVED. We have received from the publishers, Oliver Ditson & Co., Boston, a copy of Prof. L. C. Elson's latest work, Elson's Music Dictionary. As in all productions of Prof. Elson, sincerity and thoroughness are apparent in every one of its 305 pages. Music and flowers find a common standing ground in the appreciation of people of artistic temperament. Nowhere more than in the homes of our florists is the cultivation of musical talents more zealously followed, and hence we feel that in calling the attention of our readers to this rich treasury of musical information, we are doing them a favor. The book is well worth many times the price, one dollar postpaid.

THE PRETTIEST BELL FOR LEAST MONEY

Do you want the greatest novelty in wreathing, Green Statice.

J. STERN & CO.
1928 GERMANTOWN AVENUE, PHILADELPHIA.

WILLIAM J. BOAS & CO.
MANUFACTURERS OF
Folding Flower Boxes
No. 1042 Ridge Avenue, Philadelphia
Write for Price List and Samples
In writing advertisers, mention Horticulture

BOSTON FLORIST LETTER CO.
Manufacturers of FLORISTS' LETTERS



This wooden box nicely stained and varnished, 18x30x12, made in two sections, one for each size letter, given away with first order of 500 letters.
Block Letters, 1/2 or 2 inch size per 100, 5c.
Script Letters, 3. Fastener with each letter or word. Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Manager
66 Pearl Street. BOSTON, MASS.

The Florists' Supply House of America
offers a full line of Mid-winter Novelties and Special Designs in

Baskets, Tone Ware, etc., Wreaths of
Cycas, Moss, Ruscus, Immortelles, etc. Beech Sprays, Cork and Birch Bark, Wheat Sheaves, Waterproof Paper, Hampers, Bells, etc.

Send for Catalog.

H. BAYERSDORFER & CO.
50 to 56 No. Fourth St., - - Phila., Pa.

REED & KELLER
122 West 25th St., New York

Florists' Supplies
We manufacture all our Metal Designs, Baskets, Wire Work & Novelties and are dealers in Glassware Decorative Greens and Florists' Requisites.

E. A. BEAVEN
Wholesale Dealer In
SOUTHERN WILD SMILAX
and Florists' Hardy Decorative Supplies.
New crop now ready in limited quantities
EVERGREEN, ALA.

Decorating Evergreens, etc., at Wholesale Wild Smilax, Palmetto and Cycas (fresh cut), Palm Leaves, Galax, Leucothoe, Ferns and Mosses, Leaf Mold, Orchid and Azalea Peats.

Everything in Season.
THE KERVEN COMPANY
20 West 27th St., New York.

GALAX

Bronze and Green Galax,	60c per 1000
Fancy and Dagger Ferns,	\$1.00 " "
Bronze Leucothoe Sprays,	3.00 " "
Bronze Leucothoe Sprays,	3.00 " "
Rhododendron Sprays,	3.00 " "

No. 1 stock, fresh from the patch, 13 years' experience. Watch for new hobo dealers. Kindly remit with first order.

J. N. PRITCHARD - - Elk Park, N. C.

VICTORY

THE BEST SCARLET CARNATION—Being remarkably prolific

PHILADELPHIA NOTES.

There was a dearth of novelties in the holiday plant trade this year; but the old staples were never better in evidence, better grown, nor better disposed of. As a consequence, both growers and retailers are happy. Congratulations are in order, and are hereby tendered. The Christmas tree supply was as usual in excess of demand, but not such a glut as last year. The weather was delightfully clear and mild all through, and undoubtedly contributed to the enormous business done.

The H. F. Michell Co. are well satisfied with their Christmas trade. Their store is in the centre of the shopping district and commands an immense counter business in flowering and foliage plants, evergreens and supplies. Mr. Michell also expresses himself as highly pleased with the returns from his advertising in HORTICULTURE.

Poinsettias, both cut and plants, were a heavily advertised item in HORTICULTURE last week, and the two chief handlers, S. S. Pennock and Leo Niessen, both report a complete clean-up, notwithstanding the fact that crops were more expensive than ever before. W. E. McKissick also says the Christmas business done by him was far beyond his expectations.

Considering the wonderful advances made in recent years in the dahlia as a cut flower, it is regrettable to have to chronicle the financial troubles of the Atco Dahlia Farms; but these now seem to be in a fair way of adjustment.

Dr. Roberts' lecture on the value of flowers in hygiene has been shunted from the Florists Club to the Farmers' Institute, which will be held at Horticultural Hall, Jan. 16. It is expected that E. D. Darlington will take Dr. Roberts' place at the Florists' Club meeting Jan. 2.

CHRISTMAS TRADE NOTES.

D. A. Spear's store on Asylum street, Hartford, looked very attractive with numerous bunches of green sea-moss suspended from the ceiling with scarlet ribbon and interspersed with scarlet bells.

A novel decoration in the large show window of John Coombs & Son in Hartford, Conn., was a double arch of colored electric lights, one row green, the other red, spanning the window. The green and red of the Christmas goods made a harmonious effect.

From Mark Aitkin we learn that the Christmas trade in Springfield, Mass., went heavily to jardinières and baskets of mixed plants and that the sale of high-price flowers, such as American Beauty roses, was affected thereby to such an extent that no extra stock

of the latter was carried, only enough to fill direct orders being purchased. Poinsettias, azaleas and Lorraine begonias were leaders in the plant sales.

Among the pretty novelties in Christmas gifts that enjoyed a phenomenal sale with Springfield, Mass., and Hartford, Conn., florists were glass globes filled with green moss and quantities of *Mitchella repens* (Part-ridge berry) with its scarlet berries.

Our San Francisco letter indicates a widespread enthusiasm over the approach of the Christmas trade. Wagon loads of brilliant blooming plants are seen on all sides, and entrances to the principal stores in the trade are arched with pine trees and foliage. Chrysanthemums are still largely in evidence, yellow being the best sellers. All varieties of carnations are going well, especially Hannah Hobart, Mrs. Lawson and Enchantress. Everything in greens has a good call. The demand for blooming plants, such as begonias, cyclamen and primroses for Christmas is increasing.

Welch Bros., have announced their willingness and made arrangements to receive and care for all exhibits intended for the exhibition of the American Carnation Society next month, which may be sent in their care. Intending exhibitors are invited to send their flowers a day ahead and have them hardened up in Welch Bros.' storage vaults. Address, 15 Province St., Boston.

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

Geo. H. Cooke FLORIST

Connecticut Avenue and L Street
WASHINGTON, D. C.

A. Gude & Bro. FLORISTS

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Coates House Conservatory
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Both 'Phones 2670 Main

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Cor. MIAMI and GRATIOT AVES.
DETROIT, MICH.

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We hope our readers will, as far as possible, buy everything they need from Horticulture's Advertisers.

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New Year

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Store Open 7 A. M. to 8 P. M.

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\$2.00 per 100.

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Valley Violets and all Cut Flowers

A Daily Shipment
From 40 to 60 Growers

We can and will take care of your Cut
Flower and Supply Wants to advantage
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WHOLESALE FLOWER MARKETS

TRADE PRICES—Per 100—TO DEALERS ONLY

	CHICAGO Dec. 27	ST. LOUIS Dec. 18	PHILA. Dec. 18	BOSTON Dec. 18
ROSES				
Am. Beauty and Edgely Fan, & Sp.	8.00 to 95.00	..... to .....	..... to	50.00 to 75.00
" Extra.....	48.00 to 74.00	..... to .....	..... to	25.00 to 40.00
" No. 1.....	24.00 to 40.00	..... to .....	..... to	10.00 to 20.00
" Lower grades.....	8.00 to 16.00	..... to .....	..... to	5.00 to 8.00
Bride & 'Maid—Fan, & Sp.....	12.00 to 15.00	..... to .....	..... to	10.00 to 15.00
" Extra.....	8.00 to 16.00	..... to .....	..... to	6.00 to 8.00
" No. 1 and Lower gr.....	0.00 to 8.00	..... to .....	..... to	3.00 to 5.00
Liberty, Fancy.....	12.00 to 20.00	..... to .....	..... to	25.00 to 35.00
" Ordinary.....	8.00 to 10.00	..... to .....	..... to	5.00 to 15.00
Richmond, Fancy.....	10.00 to 15.00	..... to .....	..... to .....	..... to
" Ordinary.....	8.00 to 10.00	..... to .....	..... to .....	..... to
Golden Gate, Fancy.....	12.00 to 15.00	..... to .....	..... to	10.00 to 15.00
" Ordinary.....	10.00 to 12.00	..... to .....	..... to	3.00 to 6.00
Chatenay, Fancy.....	12.00 to 15.00	..... to .....	..... to	10.00 to 15.00
" Ordinary.....	8.00 to 10.00	..... to .....	..... to	3.00 to 6.00
CARNATIONS				
Fancy.....	6.00 to 10.00	..... to .....	..... to	4.00 to 6.00
Ordinary.....	4.00 to 5.00	..... to .....	..... to	2.00 to 3.00
MISCELLANEOUS				
Cattleya.....	75.00 to 80.00	..... to .....	..... to .....	..... to
Cypripedium.....	12.00 to 15.00	..... to .....	..... to	10.00 to 12.00
Lily of the Valley.....	4.00 to 5.00	..... to .....	..... to	3.00 to 4.00
Violets.....	5.00 to 8.00	..... to .....	..... to	75 to 1.00
Tulips.....	..... to .....	..... to .....	..... to .....	..... to
Romans Hyia, Paper White, Nar.....	3.00 to 4.00	..... to .....	..... to	1.50 to 2.00
Hyafodis, Trumpets.....	..... to .....	..... to .....	..... to .....	..... to
Mignonette.....	1.50 to 2.00	..... to .....	..... to	4.00 to 5.00
Adiantum Cuneatum.....	..... to .75	..... to .....	..... to .....	..... to 1.00
" Crownatum.....	..... to 1.00	..... to .....	..... to .....	..... to 1.50
Smilax.....	12.50 to 15.00	..... to .....	..... to	8.00 to 12.00
Asparagus Plumosus, strings.....	4.00 to 50.00	..... to .....	..... to	35.00 to 50.00
" " & Sprengeri, bunches	35.00 to 40.00	..... to .....	..... to	20.00 to 35.00

J.A. BUDLONG

37-39 Randolph Street, CHICAGO

Roses and
Carnations
A Specialty..... WHOLESALE
GROWER of CUT FLOWERS

PHILADELPHIA CUT FLOWER CO.

Wholesalers of Cut Flowers

1516 AND 1518 SANSOM ST.

VICTORY

THE BEST SCARLET CARNATION—Is a Fancy in the fullest sense of the word

Cut Flower and Plant Market Reports.

The largest Christmas BOSTON business on record is the universal verdict of growers, wholesalers and retailers, and applies with equal truth to the three great departments of plants, flowers, and "greens." Holly was overstocked but the surplus was mainly of inferior grade, a demonstration of the wasteful stupidity of the people who cut and shipped it to market commission dealers through whom it found its way to the curbstone fakirs in part and, in many cases to the rubbish cart. The supply of holly in the hands of the regular dealers was excellent as a rule and all stock of this sort shipped here on legitimate orders was well sold. Boxwood, laurel, mistletoe and other special material all found a splendid sale in their various forms.

Nothing different from the usual run of plants as offered in previous years was in evidence. Azaleas were provided in larger quantities and better furnished with bloom than ever before at this season, and there are a few left in retailers' hands. Cyclamens were more plentiful and of these, also, some remain unsold, but these remnants are of rather inferior grade as a rule. Ardisias and Jerusalem Cherries moved slowly as compared with the record, flowering plants being generally preferred to berried.

The cut flower demand was spirited from start to finish. Wholesale distributors were besieged from the beginning of the week by out-of-town buyers and the local trade followed suit at the close, clearing up everything except the usual Christmas overlay of white carnations, Roman hyacinths and paper white narcissi. The proportion of storage flowers was insignificant. At Welch Bros.' there was none in evidence whatever. No better American Beauties have ever been seen in this market. Carnations were superb, averaging better than ever before. Violets scored an unqualified success. May we see many more such holidays.

NEW YORK

Again a great "plant Christmas." The reasons therefor are manifold, but very little seems to have been accomplished this year by the cut flower interests to close up the gap or turn the balance of public favor toward the cut material. The same old uncertainty as to quantity of available stock and as to holiday prices prevailed in advance of Christmas, as heretofore, and the same shipments of stored material stood in the way of those growers whose cut was all fresh, and who, having no part in the offending, yet had to participate in the effects of the demoralization such conditions always entail. The retailer, as heretofore, did what he could to influence his clients in favor of plant gifts, for he could quote prices in advance, could fill his orders ahead, and knew just what he could promise. The plant trade was tremendous, and in many instances the display shelves were completely denuded and refilled two or three times. No novelties of any importance were seen, the only variation from the offerings of last year being the various receptacles in which the plant assortments were disposed. Flowering plants, such as azaleas, Lorraine begonias, orchids and poinsettias, bright-foliaged plants, such as dracenas and pandanus, fruit plants, such as ardisias, oranges, etc., ferns, palms, and like material, were used in enormous quantities, bright colors being preferred and, where the requisite brilliancy was lacking, holly branches and holly ribbon were added ad libitum. The cut flower supply was more than equal to the demand. Roses were not as plentiful as usual, but violets and carnations came in with almost unprecedented freedom, and thousands of the latter "went to sleep" Sunday night, Enchantress and Lawson being the chief offenders, but it was not the fault of the varieties. With the exception of these evidences of use in some shipments, the quality of flowers sent to this market averaged very fine. It is most regrettable that the universal free-and-easy mood of the public in the matter of money-spending did not benefit the flower-growing industry more than it did on this auspicious occasion. The liberality of the American people was never more pronounced; they spent money in a spirit that spoke of a sublime confidence in their ability to get more when it should be all gone. The cut flower trade of New York hardly got its share of all this, but prospects are excellent for the coming weeks. Holly was received in immense quantities, yet the really good grade was scarce. Ordinary stock which came through the commission dealers down town was disposed of as low as one dollar a box, all it was

worth, but it had the effect of causing dissatisfaction regarding the price of good material. Fortunately the latter was practically all ordered in advance, and very little stock worth handling had to be sacrificed. Belis had a slow sale, or rather the supply of these baubles, in the cheap form now offered, was far in excess of the need. The wholesale district made a night of it Christmas eve. A welcome innovation was made by Traudly & Schenck who, realizing the material necessities of their fellows, set up a midnight lunch for neighbors and employees.

PHILADELPHIA

Beauties were the leaders in the Christmas cut flower market. They sold out very clean; \$15 per doz. was obtained for good stock without any trouble. Liberty also sold out clean and, as with Beauty, there was a shortage in the \$15 and \$25 grades. Buyers seemed very unwilling to pay the price for the select grades, but many of such went to fill orders for medium Beauties. Brides went a bit slow, but were cleaned out all right at the finish. Bridesmaids were very scarce—not near enough to go around. Much poor stock had to be used in filling good orders, which was exasperating for the conscientious retailers. This rose seems to have been generally off crop this year. There was a limited lot of Richmonds around, and these sold alone about the same price as Liberty, but were preferred by the buyer. They were also better as to stem, and could be graded closer. Many of the Liberties were weak. Golden Gate was off crop and sold clean. Chateau was largely used in place of Bridesmaids. There were very few Killarneys on the market. Of carnations, everything in sight, good, bad and indifferent, was sold out clean by noon on Sunday. Although reds were the favorites, Enchantress was among the top-notchers, bringing \$1.50 per doz., and the high figures of \$8 and \$10 per 100 were paid for whites. The growers can now see the wisdom of not holding back their cut. They get better prices, and nothing is left over. Cattleyas sold well. Large quantities of cypripediums were used, Lceanum being the favorite. Violets sold much better than was expected. Could have absorbed more New York stock, but shipments of these were badly delayed on account of the enormous holiday pressure on the express companies. Paper Whites and Roman hyacinths were in evidence, but did not sell very well. These are not good Christmas items and should be grown only for regular trade and brought in in small quantities at a time. Lily of the valley was abundant and good. Mignonette was very plentiful, but sold out clean. Asparagus plumosus was the leader in greens, Adiantums and Sprengeri did not sell above the normal.

Southern Wild Smilax
IN ANY QUANTITY
W. E. McKISSICK
Wholesale Florist
1221 Filbert St., PHILADELPHIA

EVERYTHING SEASONABLE IN
CUT FLOWERS
EDWARD REID, Wholesale Florist
1256 Ransstead Street, PHILADELPHIA
Store Closes 8 P. M.

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FINE ROSES FANCY CARNATIONS

A Full Line of ALL CUT FLOWERS

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THE WHOLESALE

FLORIST

OF NEW YORK

Phone 1664-1665 Mad. Sq., 43 W. 28th St.

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SELLING AGENT FOR
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49 W. 28 St., New York City

Walter F. Sheridan

Wholesale Commission Dealer in

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Telephone: 902 Madison Sq.

HEADQUARTERS FOR NOVELTIES**ORCHIDS A SPECIALTY**THE HIGHEST
GRADE OF

VALLEY

ALWAYS
ON HAND

BEST BEAUTIES, METEORS, BRIDES AND BRIDESMAIDS

JAMES McMANUS, Telephone 739 Mad. Sq., 50 W. 30th St., New York**H. E. FROMENT**

Successor to

WM. CHORMLEY

Wholesale Commission Florist

57 West 28th Street - - - NEW YORK

FINEST ROSES and VIOLETS

Carnations, Lily of the Valley, Gardenias, Lilies, Ferns, Asparagus, every day in the year. Everything choice that the market offers

Special Attention to Shipping Orders

Telephones: 2200, 2201, Madison Square

Write for Current Prices

In writing advertisers, mention Horticulture

NEW YORK QUOTATIONS PER 100—TO DEALERS ONLY

	Last Half of Week ending Dec. 23 1905	First Half of Week beginning Dec. 26 1905		Last Half of Week ending Dec. 23 1905	First Half of Week beginning Dec. 26 1905
Roses			Carnations		
Am. Beauty and Edgeley fan and sp.	100.00 to 125.00	50.00 to 100.00	Fancy	6.00 to 12.00	5.00 to 8.00
" extra	50.00 to 75.00	40.00 to 50.00	Ordinary	3.00 to 5.00	2.00 to 4.00
" No. 1	25.00 to 40.00	25.00 to 30.00	Cattleyas	50.00 to 100.00	50.00 to 100.00
" Lower grades	6.00 to 15.00	5.00 to 10.00	Cypripediums	8.00 to 15.00	8.00 to 15.00
Bride & 'Maid, fan and sp.	20.00 to 35.00	20.00 to 25.00	Lily of the Valley	2.00 to 4.00	2.00 to 4.00
" extra	12.00 to 20.00	10.00 to 15.00	Violets	.75 to 1.50	.75 to 1.00
" No. 1 and lower grades	3.00 to 12.00	3.00 to 8.00	Tulips	10.00 to 15.00	10.00 to 15.00
Liberty, fancy	50.00 to 100.00	40.00 to 50.00	Roman Hyacinth, Paper White Nar.	1.00 to 2.00	1.50 to 2.00
" ordinary	6.00 to 25.00	4.00 to 10.00	Daffodils, Trumpets	10.00 to 15.00	10.00 to 15.00
Richmond, fancy	20.00 to 30.00	10.00 to 15.00	Alphonse	3.00 to 5.00	2.00 to 3.00
" ordinary	6.00 to 15.00	5.00 to 10.00	Adiantum Cuneatum	1.00 to 1.25	1.00 to 1.25
Golden Gate, fancy	15.00 to 30.00	10.00 to 20.00	" Crownatum	1.00 to 1.50	1.00 to 1.50
" ordinary	3.00 to 10.00	3.00 to 6.00	Smilax	8.00 to 12.00	8.00 to 12.00
Chatenay, fancy	15.00 to 30.00	10.00 to 20.00	Asparagus Plumosus	25.00 to 35.00	20.00 to 35.00
" ordinary	3.00 to 10.00	3.00 to 6.00	" Sprengeri, bunches	10.00 to 20.00	10.00 to 20.00

JOHN YOUNGWholesale **FLORIST**

51 West 28th St., New York

Telephone, 4463-4464 Madison Sq.

Best Beauties, Brides and Bridesmaids.

Lily of the Valley, Orchids and

Lilies. Renowned Cottage

Garden Carnations.

Edward C. Horan

Wholesale Florist

55 WEST 28th ST.

Tel. 1463 Madison Sq.

New York

TRAENDLY & SCHENCK

WHOLESALE FLORISTS

Furnish best stock at fair prices all the year round. Send for quotations on fall orders

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44 West 28th Street, New York City

FLORISTS OUT OF TOWN

Taking Orders for Flowers to be Delivered to Steamers or Elsewhere in New York can have them delivered in PLAIN BOXES, WITH OWN TAGS in best manner by

Young & Nugent

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In writing to Advertisers kindly mention Horticulture



Fancy Ferns

Wholesale Florists
30 and 40 Miami Ave., DETROIT, MICH.

Michigan Cut Flower Exchange

WM. DILGER
Manager

\$1.25 per 1000
Discount on Regular Shipments

Charles Millang
50 West 29th St., New York City

Cut Flowers on Commission
A Reliable Place to Consign to or order from
Telephone: 3860-3871 Madison Square

ORCHIDS AT ALL SEASONS

WM. STUART ALLEN CO.
Commission Merchants in Cut Flowers
53 WEST 28TH STREET, NEW YORK
Telephone 356 Madison Square

J. B. Murdoch & Co.
Wholesale Florists
FLORISTS' SUPPLIES
545 Liberty St., PITTSBURG, PA.
Long Distance Phone 1435 Court.

Bonnot Bros.
Wholesale Florists
55 and 57 W. 24th St., NEW YORK
Cut Flower Exchange Tel. 89 Madison Square.
OPEN 6.00 A.M.
AN UNEQUALLED OUTLET FOR CONSIGNED FLOWERS

We hope our readers, will as far as possible, buy everything they need from Horticulture's Advertisers.

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JOHN J. PERKINS
WHOLESALE AND COMMISSION FLORIST
115 W. 30th St., New York
Tel. No. 956 Madison Square
Wanted.—A few more reliable growers of Carnations and Violets. Quick returns and highest prices.

Established 1891 BUY FROM ME
SHIP TO TRY
All Choice Cut Flowers in Season
ALFRED H. LANGJAHR
55 West 28th St., New York
Telephone 3024 Madison Square.

CARNATIONS
AND ROSES
Pittsburg Cut Flower Co., Ltd.
504 Liberty Ave., Pittsburg, Pa.

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Cut Flowers

BOSTON'S BEST
ALL VARIETIES
SHIPPED TO ALL POINTS

Florists' Supplies
Largest Stock in New England
Lowest Wholesale Rates

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Headquarters in Western New York for

Roses Carnations

And all kinds of Seasonable Flowers

WM. F. KASTING

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Give us a Trial We can please you

NEW CROP BRONZE AND GREEN GALAX

\$1.00 per 1000. Discounts on larger quantities. Write for prices on case lots.

WE HAVE VERY FINE CUT BOX WOOD.

DAGGER AND FANCY FERNS.

NEW CROP SOUTHERN WILD SMILAX \$3.50 and \$7.00 per Case.

Headquarters for all FLORISTS' SUPPLIES. Wire Designs, Cut Wire, Telieres, Immortelles, Cypas Leaves, Wheat Sheaves, Ribbons, Corrugated Boxes, etc.

LAUREL FESTOONING, 5c. and 6c. per yard.

HENRY M. ROBINSON & CO. 8 & 11 Province St., Boston, Mass.
L. D. Telephone, N. D. Telephone, N. A. 2618

FOR GOOD PRICES

AND CASH RETURNS

send your flowers to

Phil. F. Kessler

57 West 28th Street, New York.
Telephone 2921 Madison Square.

GEORGE SALTFOORD

Wholesale Commission Dealer In

Cut Flowers

ONSHINMENTS DESIRED

46 W. 29th Street, New York
Tel. 3393 Madison Sq.

WHOLESALE FLOWER MARKETS.—TO DEALERS ONLY.

	CINCINNATI Dec. 26	DETROIT Dec. 27	BUFFALO Dec. 26	PITTSBURG Dec. 27
ROSES				
Am. Beauty and E. gerly, fan and sp.	100.00	100.00	100.00	100.00
extra	75.00	75.00	75.00	75.00
No. 1	50.00	50.00	50.00	50.00
Lower grades	35.00	35.00	35.00	35.00
Bride and Maid, fan, and sp.	20.00	20.00	20.00	20.00
extra	15.00	15.00	15.00	15.00
No. 1 and Lower gr.	12.00	12.00	12.00	12.00
Liberty, fancy	10.00	10.00	10.00	10.00
Ordinary	8.00	8.00	8.00	8.00
Richmond, fancy	10.00	10.00	10.00	10.00
Ordinary	8.00	8.00	8.00	8.00
Golden Gate, fancy	10.00	10.00	10.00	10.00
Ordinary	8.00	8.00	8.00	8.00
Chateaufort, fancy	10.00	10.00	10.00	10.00
Ordinary	8.00	8.00	8.00	8.00
CARNATIONS				
Fancy	8.00	8.00	8.00	8.00
Ordinary	6.00	6.00	6.00	6.00
MISCELLANEOUS				
Cattleyas	10.00	10.00	10.00	10.00
Cypripediums	10.00	10.00	10.00	10.00
Lang of the Valley	1.00	1.00	1.00	1.00
Violets	1.50	1.50	1.50	1.50
Tulips	1.00	1.00	1.00	1.00
Roman Hyacinth Paper White Nar.	1.00	1.00	1.00	1.00
Hyacinths	1.00	1.00	1.00	1.00
Hyacinths—Trumpets	1.00	1.00	1.00	1.00
Mignonette	1.00	1.00	1.00	1.00
Adiantum Cuneatum	1.00	1.00	1.00	1.00
Crocus	1.00	1.00	1.00	1.00
Smilax	1.00	1.00	1.00	1.00
Asparagus Plumosus, strings	1.00	1.00	1.00	1.00
Asparagus Plumosus, bunches	1.00	1.00	1.00	1.00

Geo. A. Sutherland Co.

CUT FLOWERS

Florists' Supplies and Letters

34 HAWLEY STREET - BOSTON

List of Advertisers

	Page		Page
Allen Wm. Stuart Co.	715	McCarthy N. F. & Co.	715
Aschmann Godfrey	700	McConnell Alex.	711
Baker Wm. J.	712	McDonald Chas. & W.	712
Bambrick, Thos. H.	719	McKissick W. E.	713
Barrow H. H. & Son	700	McManus Jas.	714
Bayersdorfer H. & Co.	710	Michell H.	702
Beaven, E. A.	710	Michigan Cut Flower Exchange	715
Black, Chas.	699	Millang Charles	715
Blackstone J. O.	711	Millang Frank	714
Boas W. J. & Co.	710	Minninger J. C.	719
Boblink & Atkins	699	Mt. Hissarick Nurseries	699
Coddington A. T.	702	Murdoch J. B.	715
Bonnot Bros.	715	Murray Samuel	711
Boston Florist Letter	702	Nicotine Mfg. Co.	702
Breck Joseph & Sons	702	Nissen Leo	712
Breitmeier's J. Son	711	Patten & Co.	698
Budlong J. A.	712	Pennock Samuel	712
Burnett Bros.	702	Perkins John	715
Burnham Hitchings	710	Phila. Cut Flower Co.	712
Pierion Co.	720	Pierion F. R. Co.	700
Burpee W. A. & Co.	702	Pittsburg Cut Flower Co.	715
Chicago House Wrecking Co.	719	Prechard J. N.	712
Chicago Carnation Co.	698	Pye E. H.	699
Clay's Mushroom & Spawen Co.	710	Rayson, W. W. & Co.	702
Cooke G. H.	711	Rawnor John I.	704
Cornwall Co.	720	Rea & Keller	710
Dalger Wm.	715	Reid Edw.	713
Dimmock A.	700	Reinberg Peter	712
Dreer H. A.	709-710	Robinson H. M. & Co.	715
Dysart R. J.	719	Roeths Julius	700
Eichholz Harry	709	Roker August & Son	699
Elliott Wm. & Son	700	Salford Geo.	715
Faler J. C.	719	Sander & Son	700
Ernest W. H.	719	Schillo Lumber Co.	720
Farguhar R. J. & Co.	702	Schmidt J. C. Co.	699
Fletcher F. W.	699	Scollay John A.	719
Ford Bros.	714	Scott John	700
Forest Nursery & Seed Co.	699	Sharp Partridge & Co.	720
Froment H. E.	714	Sherridan W. F.	714
Fromow W. & Sons	699	Sievers J. H. & Co.	698
Grey T. J. & Co.	702	Siggers & Siggers	710
Gude A. & Bro.	711	Situations & Sons	718
Gurney Heater Mfg. Co.	719	Skidelsky S. S.	700
Guttman Alex. J.	698-711-713-714	Stern J. & Co.	710
Hail Assn.	719	Stearns A. T. Lumber Co.	719
Hammond Paint & Slag Shot Works	719	Sievens H. A.	698
Hittler & Co.	719	Sutherland Geo. A. & Co.	702
Hewes A. H. & Co.	719	Thompson J. D. Co.	698
Hill E. G. Co.	700	Thorburn J. M. & Co.	702
Higginson & Co.	719	Totter, Chas. H.	699
Horan E. C.	714	Treadwell & Schenck	714
Horticulture Pub Co.	699	Troy, J. H.	699
Hunt E. H.	699	Van Jaughan & Perry	712
Igoe Bros.	698	Walsh M. H.	699
Kasing W. F.	715	Ward Ralph M. Co.	702
Keryan Co., The	710	Watson G. C.	702
Kessler, P. F.	715	Weber F. C.	711
King Cons. Co.	719	Weber H. & Sons	698
Kleiner & Co.	719	Wein E. Haines, My Maryland	712
Lager & Hurrell	700	Weiland & Risch	712
Lang Julius	715	Wheeler & Co.	700
Langjahr, Alfred H.	715	Wintner Bros.	712
Le Page N.	699	Wintnerch E. F.	712
Leuthy A. & Co.	700	Young John	714
Mathews T. F.	709	Young & Nacent	714
		Young Thos. Jr.	714

A WORD
TO THE
EARLY BIRD
WILL BE FOUND
ON
PAGE 702

Buyer's Directory and Ready Reference Guide READ IT

Advertisements under this head, 10 cents a line.

Regular advertisers in this issue are also listed under this class, but without charge. Reference to List of Advertisers will indicate the respective pages.

ACCOUNT.

Robert J. Dysart, 28 State St., Boston.
For page see List of Advertisers.

AGRICULTURAL IMPLEMENTS.

Thos. J. Grey & Co., 32 S. Market St., Boston.
For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.
For page see List of Advertisers.

BAMBOO STAKES.

Suzuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

BULBS AND TUBERS.

R. M. Ward & Co., New York.
For page see List of Advertisers.
Joseph Breck & Sons, 47-54 N. Market St., Boston.
Japan Lily Bulbs.
For page see List of Advertisers.

W. W. Rawson & Co., 12 & 13 F. II Square, Boston.
Arlington Tested Seeds for Florists.
For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.
For page see List of Advertisers.

Suzuki & Iida, 31 Barclay St., New York.
Lily Bulbs.
For page see List of Advertisers.

H. F. Michell & Co.,
Philadelphia, Pa.
For page see List of Advertisers.

CALIFORNIA PRIVET.

Chas. Black, Hightstown, N. J.
For page see List of Advertisers.

CARNATIONS.

John H. Sievers & Co., 1231 Chestnut St., San Francisco, Cal.
Hannah Hobart.
For page see List of Advertisers.

J. D. Thompson Carnation Co., Joliet, Ill.
For page see List of Advertisers.

H. A. Stevens Co., Dedham, Mass.
Rooted Cuttings Variegated Lawson.
For page see List of Advertisers.

Alex. J. Guttman, 43 W. 28th St., N. Y. Carnation Victory.
For page see List of Advertisers.

C. H. Totter, Madison, N. J.
For page see List of Advertisers.

Patten & Co., Tewksbury, Mass.
Pink, Patten and Mikado Carnations.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
John E. Haines, My Maryland.
For page see List of Advertisers.

Henry Eichholz, Waynesboro, Pa.
Carnations, Red Lawson, Mrs. W. T. (unwink).
For page see List of Advertisers.

T. F. Matthews, Ashland St., cor. Mill, Dorchester, Mass.
Carnation, White Lawson.
For page see List of Advertisers.

CARNATION SUPPORTS.

Igoe Bros., 226 N. 9th St., Brooklyn, N. Y.
For page see List of Advertisers.

CHRYSANTHEMUMS.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

CHRYSANTHEMUM STOCK PLANTS.

C. H. Totter, Madison, N. J.
For page see List of Advertisers.

The H. Weber & Sons Co., Oakland, Md.
For page see List of Advertisers.

CUPS AND TROPHIES.

Thornton Bros., Lawrence, Mass.
For page see List of Advertisers.

CYCLAMEN PLANTS.

C. Winterich, Deñance, O.
For page see List of Advertisers.

DAISIES.

The F. W. Fletcher Co., Auburndale, Mass.
For page see List of Advertisers.

FERNS.

A. Leuthy & Co., Rosindale, Mass.
For page see List of Advertisers.

H. H. Barrows & Sons, Whitman, Mass.
Nephrolepis Barrowall.
For page see List of Advertisers.

S. S. Skidelsky, 824 N. 24th St., Philadelphia.
For page see List of Advertisers.

P. R. Pierion Co., Tarrytown-on-Hudson, N. Y.
Nephrolepis Pierion Elegantisima.
For page see List of Advertisers.

FERTILIZERS.

Wm. Elliott & Sons, New York.
Clay's Fertilizer.
For page see List of Advertisers.

FLORISTS' SUPPLIES.

H. M. Robinson & Co., 8-11 Province St., Boston.
For page see List of Advertisers.

H. Bayersdorfer & Co., Philadelphia, Pa.
For page see List of Advertisers.

The Kervan Co., 20 W. 27th St., N. Y.
Decorative Evergreens.
For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Pittsburgh, Pa.
For page see List of Advertisers.

Reed & Keller, 122 W. 25th St., New York.
For page see List of Advertisers.

J. B. Murdoch & Co., 545 Liberty St., Philadelphia.
For page see List of Advertisers.

S. S. Pennock, Philadelphia.
For page see List of Advertisers.

J. Stern & Co., 1028 Germantown Ave., Philadelphia.
For page see List of Advertisers.

FLORISTS' LETTERS.

Boston Florist Letter Co., 84 Hawley St., Boston.
For page see List of Advertisers.

G. A. Sutherland Co., 34 Hawley St., Boston.
For page see List of Advertisers.

FLOWERS BY TELEGRAPH.
Alex. McConnell, New York.
For page see List of Advertisers.

Fred C. Weber, 4326-28 Olive St., St. Louis, Mo.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

J. Breitmeier's Sons, Miami & Gratiot Aves., Detroit, Mich.
For page see List of Advertisers.

Thos. Young, Jr., 41 W. 28th St., New York.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

A. Gude & Bro., 1214 F St., Washington, D. C.
For page see List of Advertisers.

Z. D. Blackstone,
14th and H Sts., Washington, D. C.
For page see List of Advertisers.

Samuel Murray, 1017 Broadway, Kansas City, Mo.
For page see List of Advertisers.

FLOWER POTS.

W. H. Ernest, 28th and M Sts.,
Washington, D. C.
For page see List of Advertisers.

A. H. Hews & Co., Cambridge, Mass.
For page see List of Advertisers.

FOLDING BOXES.

Welch Bros., 15 Province St., Boston.
For page see List of Advertisers.

Wm. J. Boss & Co., Philadelphia, Pa.
For page see List of Advertisers.

GALAX.

J. N. Pritchard, Elk Park, N. C.
For page see List of Advertisers.

GERANIUMS.

The E. G. Hill Co., Richmond, Ind.
For page see List of Advertisers.

GLASS.

Sharp, Partridge & Co., 22nd and Union
Place, Chicago.
For page see List of Advertisers.

GLAZING POINT.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

GREENHOUSE BUILDING MATERIAL.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

Chicago House Wrecking Co., Chicago, Ill.
For page see List of Advertisers.

A. T. Stearns Lumber Co., Neponset, Boston.
For page see List of Advertisers.

King Construction Co., N. Tonawanda, N. Y.
For page see List of Advertisers.

John C. Moulger Co., 111-125 Blackhawk
St., Chicago.
For page see List of Advertisers.

Adam Schillo Lumber Co., West St. and
Hawthorne Ave., Chicago, Ill.
For page see List of Advertisers.

GREENHOUSE HOSE.

Anchor Greenhouse Hose is the best for
Florists.

Mineralized Rubber Co., New York.
For page see List of Advertisers.

HARDY FERNS AND SUPPLIES.

H. M. Robinson & Co., 8-11 Province St.,
Boston.
For page see List of Advertisers.

HEATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.
For page see List of Advertisers.

John A. Scollay, 73 & 75 Myrtle Ave.,
Brooklyn, N. Y.
For page see List of Advertisers.

Gurney Heating Mfg. Co., 74 Franklin St.,
Boston.
For page see List of Advertisers.

IMPORTING HOUSES.

August Rolker & Sons, 31 Barclay St.,
New York City.
For page see List of Advertisers.

R. M. Ward & Co., New York.
Plants and Bulbs.
For page see List of Advertisers.

JAPANESE PLANTS.

Susuki & Iida, 31 Barclay St., New York.
For page see List of Advertisers.

MICE PROOF SEED CASES.

Heller & Co., Montclair, N. J.
For page see List of Advertisers.

MUSHROOM SPAWN.

Cochran Mushroom & Spawm Co.,
911 Chemical Bldg., St. Louis, Mo.
For page see List of Advertisers.

NURSERY STOCK.

Mt. Hissarik Nurseries,
New Rochelle, N. Y.
For page see List of Advertisers.

Cottage Gardens, Queens, N. Y.
For page see List of Advertisers.

Chas. Black, Hightstown, N. Y.
For page see List of Advertisers.

ORCHID PLANTS.

Lager & Hurrell, Summit, N. J.
For page see List of Advertisers.

Sander, St. Albans, England.
Importers, Exporters, Growers, Hybridists.
For page see List of Advertisers.

Wheeler & Co., 1250 Beacon St.,
Waban, Mass.
For page see List of Advertisers.

Julius Roehrs Co., Rutherford, N. J.
For page see List of Advertisers.

PAEONIES.

Chicago Carnation Co., Joliet, Ill.
For page see List of Advertisers.

PATENTS.

Siggers & Siggers, Washington, D. C.
For page see List of Advertisers.

PEERLESS REPAIR CLAMP.

A. Klokner, Wauwatosa, Wis.
For page see List of Advertisers.

PLANTS, BEDDING.

J. C. Schmidt Co., Bristol, Pa.
Pansies, Daisies, Forget-Me-Not's, Geraniums.
For page see List of Advertisers.

PLANTS DECORATIVE.

A. Leuthy & Co., Roseland, Mass.
For page see List of Advertisers.

Julius Roehrs, Rutherford, N. J.
For page see List of Advertisers.

Hobnik & Atkins, Rutherford, N. J.
For page see List of Advertisers.

PLANTS FORCING.

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
For page see List of Advertisers.

R. & J. Farquhar & Co., Boston.
Spiraea Gladstone, Japonica, Lily of the
Valley.
For page see List of Advertisers.

Hobnik & Atkins, Rutherford, N. J.
For page see List of Advertisers.

POINSETTIAS.

W. H. Siebrecht, Astoria, Long Island
City, N. Y.

PUBLICATIONS.

The Chrysanthemum, Horticulture Publish-
ing Co., Boston.

The Forcing Book, G. C. Watson, Phila.
For page see List of Advertisers.

RETAIL FLORISTS.

Julius A. Zinn,
2 Beacon St., Boston, Mass.
Flowers by Telegraph.

Alex. McConnell, New York.
For page see List of Advertisers.

Thomas Young, Jr., New York.
For page see List of Advertisers.

Fred C. Weber, 4326 Olive St., St. Louis, Mo.
For page see List of Advertisers.

J. Bretmeyer's Sons, Detroit, Mich.
For page see List of Advertisers.

Young & Nugent, New York.
For page see List of Advertisers.

Z. D. Blackstone, 14 & 18 S. Washing-
ton, D. C.
For page see List of Advertisers.

George H. Cooke, Washington, D. C.
For page see List of Advertisers.

Samuel Murray, 1017 Broadway,
New York.
For page see List of Advertisers.

RETAIL FLORISTS.—Continued.

A. Gude & Bro., 1214 F St.,
Washington, D. C.
For page see List of Advertisers.

ROSES.

M. H. Walsh, Woods Hole, Mass.
Hardy Roses, H. T. Roses and Rambles.

C. H. Totty, Madison, N. J.
For page see List of Advertisers.

August Rolker & Sons, 31 Barclay St.,
New York.

English-Grown Roses.
For page see List of Advertisers.

H. A. Dreer, Philadelphia, Pa.
Baby Rambles.

For page see List of Advertisers.

Benj. Dorrance, Dorrance, Pa.
Killarney and Richmond.

California Rose Co., Los Angeles, Cal.

SEEDS.

W. W. Rawson & Co., 12 and 13 Faneuil
Hall St., Boston.
Cyclamen Seed.

For page see List of Advertisers.

Thos. J. Grey & Co., 32 S. Market St.,
Boston.

For page see List of Advertisers.

Joseph Breck & Sons,
51 and 52 N. Market St., Boston.

For page see List of Advertisers.

W. Atlee Burpee & Co., Philadelphia.
For page see List of Advertisers.

Burnett Bros., 101 West St., New York
Seeds, Bulbs, and Fertilizers.

For page see List of Advertisers.

J. M. Thorburn & Co.,
36 Cortlandt St., New York.

For page see List of Advertisers.

Forest Nursery & Seed Co., McMinville,
Tenn.

For page see List of Advertisers.

H. F. Michell Co., 1018 Market St.,
Philadelphia, Pa.

For page see List of Advertisers.

Conrad Appel, Darmstadt, Germany, Ex-
tab. 1795. High Grade Grass, Clover, and Tree Seeds

SOUTHERN WILD SMILAX.

H. M. Robinson & Co., 8 & 11 Province
St., Boston.

For page see List of Advertisers.

E. A. Beaven, Evergreen, Ala.
For page see List of Advertisers.

STEAM TRAP.

E. Hippard, Youngstown, O.
For page see List of Advertisers.

VENTILATING APPARATUS.

Burnham Hitchings Pierson Co.,
1133 Broadway, New York.

For page see List of Advertisers.

John A. Scollay, 73-75 Myrtle Ave.,
Brooklyn, N. Y.

For page see List of Advertisers.

The Chicago Lifter.

J. C. Moulger Co., 421 Hawthorne Ave.,
Chicago.

VERBENAS.

H. F. Michell Co., Philadelphia, Pa.
For page see List of Advertisers.

WHOLESALE FLORISTS.**Boston.**

For page see List of Advertisers.

N. F. McCarthy & Co., 84 Hawley St., Bos-
ton.

George A. Sutherland Co., 34 Hawley St.,
Boston.

Welch Bros., 15 Province St., Boston.

Buffalo.

For page see List of Advertisers.

Wm. F. Easting, 385-87 Elliott St., Buf-
falo, N. Y.

Chicago.

For page see List of Advertisers.

J. A. Hudlog, 37 Randolph St., Chicago.

E. H. Hunt, 75 Wabash Ave., Chicago.

Chas. W. McKellar, 51 Wabash Av., Chicago.

Peter Reinberg, 51 Wabash Av., Chicago.

A. L. Randall Co., 21 Randolph St., Chicago.

Welland & Rich, 59 Wabash Av., Chicago.

Wietor Bros., 51 Wabash Av., Chicago.

Vaughan & Sperry, 60 Wabash Av., Chicago.

R. F. Winters, 60 Wabash Av., Chicago.

At., Chicago.

WHOLESALE FLORISTS—Continued

Cincinnati.

Ohio Cut Flower Co., 129 E. 3d St.
Wm. Murphy, 128 E. 3d St.

Detroit.

For page see List of Advertisers.
Michigan Cut Flower Exchange, 38 & 40
Miami Ar. Wm. Dilger, mgr.

New York.

A. L. Young & Co., 54 W. 28th St.,
New York.

For page see List of Advertisers.
Bonnot Bros., 55-57 W. 26th St., New
York.

Ford Bros., 48 West 28th St., New York.
H. E. Fremont, 57 W. 28th St., New York.

Alex. J. Guttman, 43 West 28th St.
E. C. Horan, 55 West 28th St., New York.

Philip F. Kessler, 55 W. 26th St., New
York.

Julius Lang, 63 West 30th St., New York.
A. L. Hangebar, 55 W. 28th St., New York.

James McManus, 50 W. 30th St., New York.
Chas. Millang, 55 West 26th St., New York.

Frank Millang, 55-57 W. 26th St., New
York.

John J. Perkins, 115 W. 30th St., New York.
John I. Raynor, 40 W. 28th St., New York.

George Salford, 40 W. 28th St., New York.
W. P. Sheridan, 40 W. 28th St., New York.

Tracandy & Schueck, 44 W. 28th St., New
York.

John Young, 61 W. 28th St., New York.
Philadelphia.

For page see List of Advertisers.
W. J. Baker, 1432 So. Penn. Sq., Phila-
delphia, Pa.

W. B. McKissick, 1221 Filbert St., Phila-
delphia, Pa.

Leo Niessen Co., 1217 Arch St., Phila-
delphia, Pa.

S. S. Pennock, 1612-18 Ludlow St., Phila-
delphia, Pa.

Phila. Cut Flower Co., 1516-18 Sansom St.,
Philadelphia, Pa.

Pittsburg.

For page see List of Advertisers.
Pittsburg Cut Flower Co., Ltd., 504
Liberty St., Pittsburg, Pa.

J. B. Murdoch & Co., 545 Liberty St., Pitte-
sburg.

New Offers in This Issue.

GLADIOLI FOR FORCING.

Joseph Breck & Sons, Boston.
For page see List of Advertisers.

NIKOTINE APHIS PUNK.

Nicotine Mfg. Co., St. Louis, Mo.
For page see List of Advertisers.

ROSES, CARNATIONS.

E. H. Pye, Upper Nyack, N. Y.
For page see List of Advertisers.

TUBEROUS ROOTED BEGONIAS.

N. LePage, Mt. Vernon, N. Y.
For page see List of Advertisers.

A word to the Early Bird will be
found on Page 702.

FIRE RECORD.

I. W. Lozier's floral establishment at
Des Moines, Ia., was completely de-
stroyed by fire on the morning of
December 16. The loss is reported as
\$12,000, with an insurance of but
\$2,000.

An over-heated furnace was the
cause of fire in the greenhouse on the
estate of E. Y. Weber, Noroton Hill,
Conn., December 15, but the greatest
damage to the plants was done by the
fire air.

Fire started in the Poland Spring
conservatory, Me., on December 16.
It was soon put out, but the smoke and
cold damaged the plants considerably.
The new construction will include fire-
proof buildings.

LIST OF PATENTS.

Issued December 19, 1905.

807,526. Fertilizer Distributor. Jeffer-
son D. Williamson. Char-
lotte, N. C.

807,737. Lawn Mower. Frank H.
Frankenberg. Pueblo, Colo.

SEED TRADE.

A meeting of the executive commit-
tee of the American Wholesale Seeds-
men's Association will be held at
Booner's Hotel, Philadelphia, Jan. 10.

The annual convention of the Can-
ners' Association will be held at At-
lantic City, N. J., commencing Feb. 12.
W. C. Langbridge of the Jerome B.
Rice Co., paid a visit to Philadelphia
while passing through, to perfect the
arrangements. Headquarters will be
at the Hotel Rudolph. Many of the
wholesale seedsmen will be in at-
tendance.

CATALOGUES RECEIVED.

W. E. Marshall & Co., New York
City, annual spring catalogue for 1906.
Burpee's Farm Annual for 1906.
Colored cover and two colored inserts
140 pages of Burpee inspiration.

California Nursery Co., Niles, Cal.
Price-list for season of 1905-1906. A
remarkably diversified test of the
offerings of a 500 acre nursery.

By a series of circumstances S. S.
Pennock has come into possession of
a quantity of the newer and more re-
fined forms of those Atco Dahlias,
such as Kriemhilde, Standard Bearer,
General Butler, Bruton, Gabriel, Ara-
bella, Gorgeous, Gracie, and some
twenty or thirty other fine sorts. Mr.
Pennock has appointed George C. Wat-
son as his sales agent in this connection
and is offering the stock on very
reasonable terms. This is an exception-
ally interesting opportunity for all
Dahlia enthusiasts—commercial or
amateur. A descriptive price list has
been published and can be had on ap-
plication. Address, G. C. Watson, 1614
Ludlow St., Philadelphia.

BUSINESS CHANGES.

E. H. Whitney has started in busi-
ness in Penacook, N. H.

I. O. Kemble has purchased the busi-
ness of J. H. Wright, Jr., at Marshall-
town, Ia.

C. H. Addison, for many years con-
nected with the florist business in Bos-
ton, has opened an up-to-date estab-
lishment in Waterville, Me.

Hiram Huise, one of the oldest
florists in Topeka, Kan., will give up
his business and try fruit raising on
his farm in Jewell County in the
spring.

Ross Farley, owner of two large
greenhouses at Noblesville, Ind., has
made an assignment for the benefit of
his creditors and the Hamilton Trust
Co. has been appointed assignee.
Liabilities and assets are reported to
be \$2,000 each. It is said that Farley
has gone to Texas to enter the min-
istry.

GREENHOUSES BUILDING AND PROJECTED.

Wilmington, Del.—Marion N. Wood,
two houses.

Upper Sandusky, O.—Fred Sammet,
one house 20x60.

Greeland, N. H.—Edward G.
Clough, three houses.

Leonard Hain has started in busi-
ness at Warsaw, N. Y.

Senator Gallinger and Representa-
tive Currier have introduced bills in
the national Senate and House looking
toward a national forest reservation in
the White Mountains.

PACIFIC COAST NOTES.

W. W. Perkins is interested in the
cultivation of roses on a large scale,
having a large tract of land in Orange
county, California, devoted to that
purpose. He is connected with the ex-
tensive business of Jackson & Perkins
Co., located at Newark, N. Y. Last
year he shipped to this company five
carloads of young rose bushes from his
Orange county nursery. He is now
considering northern California as a
site for business in roses, being very
favorably impressed with Stanislaus
county, near the town of Modesta, and
the indications are that he will pur-
chase land in this county and start
his nursery in the near future.

It seems that John McLaren, super-
intendent of Golden Gate Park, has
come into disfavor with the Mayor
Schmitz administration, owing to his
alleged political activity in the recent
campaign, and the daily press is say-
ing that Herbert Schmitz, brother of
Mayor Schmitz, who was elected last
month on the Union Labor ticket, is
to succeed Superintendent McLaren.

The Governor of California has re-
ceived a letter from Elwood Mead of
the United States Department of
Agriculture to the effect that the Asso-
ciation of Agricultural Colleges and
Experiment Stations will hold their
next meeting next July in Berkeley,
California, the site of the University
of California. This also insures the
meeting of the Association of Farmers'
Institutes and of the Association of
University Presidents.

The government reservations of San
Francisco harbor are to be beautified
by transplanting trees, plants and
shrubbery from the stocks in the nur-
series at the Presidio. This is the order
the military authorities here have
received from the War Department,
the initial appropriation accompanying
the order being \$1000.

Commencing with the February
number, Suburban Life, of Boston, will
be printed by the J. Horace McFarland
Company and Mr. McFarland will oc-
cupy the post of associate editor of
the magazine.

WANTS.

WANTED—Young man, 21 to 24 years
preferred, who has had training in old
country and a year or two in this country.
In general greenhouse work and good
knowledge of plants. Wages \$75 a month.
Address T. W. C. HORTICULTURE, 11
Hamilton Place, Boston.

WANTED—Salesman; bright, active man,
thoroughly competent, for ribbons, supplies
and cut flowers. Apply with full particu-
lars as to salary wanted, experience, refer-
ences, to S. S. Pennock, 1612-18 Ludlow
Street, Philadelphia.

FOR SALE

A first class cut under platform spring
wagon, and also a first class top wagon, cut
under, French plate glass on side, with a
good reliable horse. Will sell cheap after
the season.

Good for city, country, commercial
grower or retail florist's use. CHAS. MIL-
LANG, 50 West 29th St., N. Y.

FOR SALE OR RENT.

Well established florists' business in
view of the fact that 8,000 sq. ft. glass
three acres of land. Entire product sold
at retail. Other business demands my
time. Address P. O. C. care of HORTI-
CULTURE, 11 Hamilton Place, Boston.

POT MAKERS FOR 140 YEARS

A. H. HEWS & CO. INC.

CAMBRIDGE, MASS.
FINEST POT MAKERS OF THE WORLD

CYPRESS SASH BARS

32 feet or longer
HOT BED SASH

PECKY CYPRESS BENCH LUMBER

GREENHOUSES

ERECTED AND EQUIPPED COMPLETE IF DESIRED

Write for Circular "D" and Prices

The A. T. STEARNS LUMBER CO.

NEPONSET, BOSTON, MASS.

In writing advertisers, mention Horticulture

GOOD MEN

When you need good men,
skilled or unskilled, write:

**THOS. H.
BAMBRICK**

34 South 7th Street, Philadelphia

Help of all kinds, including that for
Florists, Nursermen, Seedsmen and the
Horticultural trade generally.

SEND FOR

NEW GREEN HOUSE CATALOGUE

JUST ISSUED BY

King Construction Co.

North Tonawanda, N. Y. and Toronto, Ont.

In writing advertisers, mention Horticulture

SEND FOR CATALOGUE OF
**SCOLLAY HOT WATER
and STEAM BOILERS**

JOHN A. SCOLLAY

73 and 75 Myrtle Avenue

BOROUGH OF BROOKLYN, N. Y. CITY

Greenhouse Material


Ask for our Special Catalogue No. 554 describing
Boiler Tubes, Boilers, Tubes, Sash, Lumber and Supplies
of every kind from the Fifty Million Dollar St. Louis
World's Fair.

CHICAGO HOUSE WRECKING CO.

35th and Iron Sts. CHICAGO

We hope our readers will, as far as
possible, buy everything they need
from Horticulture's Advertisers.

The Standard Steam Trap



Certificate of merit awarded at Washington, D. C.,
Florists' Convention. For simplicity, durability and per-
fect satisfaction it has them all guessing. It is
in a class by itself. To see it work a large
plant as well as a small will convince the
most sceptical that it is the Florists' Friend.

The Standard Ventilating Machine still
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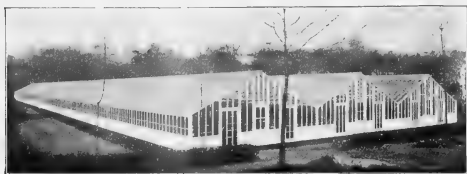
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